

Maine Department of Transportation

Location Referenced Transportation System Database

Reporting on: Transportation Integrated Network Information System (TINIS)
Transportation Information for Decision Enhancement (TIDE)

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Introduction

The Maine Department of Transportation (MDOT) maintains a location-oriented data base entitled TINIS (Transportation Integrated Network Information System), which was originally developed nearly 30 years ago. The data contained within TINIS is of such quality that Maine was one of the five original states selected by FHWA in 1987 to participate in its HSIS (Highway Safety Information System). HSIS is a data base that contains crash, roadway inventory and traffic volume data. In order to be eligible to participate in HSIS, states were selected based upon the quality of their data, the range of data available, and their ability to merge data from various files. There are now eight states that participate in HSIS, and FHWA continues to use the data provided by these participating states to study highway safety issues, direct research, and evaluate the effectiveness of crash countermeasures.

Location Referencing

Transportation data by its nature is generally referenced by location. Highway and other transportation systems are continuously in a state of flux. New intersections are created whenever a new road is built, road lengths change when they are reconstructed and remeasurement and refinement of data locations routinely result in edited location data. As such, any data base must be robust in its ability to track and maintain changes to the system in an ongoing manner. Reconstruction of a road involving elimination or flattening a horizontal curve impacts the road length, so any point of interest located beyond the adjustment must also be adjusted to reflect its correct location relative to the entire system.

There are essentially two methods used to locate transportation data: node-link and log route mile. TINIS is based upon a link and node system. In this manner, when ever a change in link length occurs, or if a node is added, the changes affect only a limited segment of the transportation system. If the log route mile methods were used for location referencing, the entire route would be affected from the location of the change to the end of the route.

In TINIS, node numbers identify unique points along the transportation system such as intersections, bridges, town and county lines, railroad grade crossings, urban compact lines, and other points of interest. Node numbers are unique to each county within the state. Links are used to connect the nodes and can best be described as a section of road that connects two nodes. TINIS has the capability to allow several sub groupings of data within a link to allow for variations within the road section to be properly recorded, such as in road cross sectional data (road and shoulder width and type, number of lanes, etc.). Link lengths in TINIS generally vary in length from 0.3 to 6.0 miles.

Many data users are more comfortable locating points of interest by distance from a known point (e.g., intersection or town line), rather than by a node number with distance offset. They prefer to use the log route mile method to locate points of interest. TINIS

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maintains and synchronizes both forms of location referencing, though node link is the primary format used for location referencing.

Overview of TINIS Data Content & Functionality

One of the most significant functions of TINIS is its ability to synchronize the data by location. For instance, were it not for TINIS' ability to adjust for changes in location information, crashes would not be coded to the proper crash location over time. Without this adjustment, the road length has changed, but the crash location has not.

The TINIS data base contains most of Maine's transportation system data , such as those items indicated below.

- Link Records -- county, town, functional class, rural-urban setting, pavement and shoulder widths and types, number of travel lanes, AADT, etc.
- Node Records -- county, node type, location description, annual million entering vehicles, presence of traffic signal, etc.
- Crash Records -- with few exceptions, all of the crash data that is captured on Police Crash Reports is entered into TINIS. The most recent ten year period of crash data is contained in TINIS. TINIS subroutines calculate crash rates for all links and nodes (based on three years of crash data), determine statewide average crash rates by road class and rural-urban setting, calculate critical rates, and identify High Crash Locations (locations that have a critical rate factor greater than one, and have experienced at least eight crashes over the past three year period).
- Project History -- Project Identification Number (PIN), distances from/to nodes for begin and end descriptions, project status, pavement and base thickness, project scope, etc.
- Bridge Management and Bridge Inventory data
- Railroad Grade Crossings Inventory data
- Speed Zones.

Improvements in User Access to TINIS

TINIS capabilities have been continually updated over the years as new data sources have been added, and as the transportation system has evolved in complexity. TINIS has effectively maintained all of its data locationally synchronous for nearly 30 years, and it has served MDOT purposes extremely well. However, MDOT recognizes that the flat file format that TINIS is based upon is dated technology. Though TINIS continues to operate very effectively, its original purpose was primarily to capture and process data, not for on line analysis. It therefor does suffer some drawbacks:

- A limited number of routine programs and output reports are available to the majority of system users
- Knowledge of mainframe computer programming is required to conduct special studies and ad hoc data retrieval

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- MDOT is moving towards capturing inventory and other information through GPS (latitude and longitude, xy format), and other additional location referencing systems may be desirable
- Over time, TINIS extracts have been made to relational data bases to allow for data analysis and program management, but because these relational data bases reside externally to TINIS, they are not being kept in sync with TINIS.

As a result of these constrictions to the effective analysis of necessary data, MDOT began in 1996 to move to newer technologies. Recognizing the significant cost and disruption that would result if a move was made to replace the functionality provided by TINIS with a modern data base, MDOT elected to develop a data warehouse. The data warehouse would routinely (weekly) extract data from TINIS to a user-friendly relational data base incorporating a graphical query language (GQL) interface. It was also desired that the new product have spatial data analysis and plotting capabilities through a GIS (Graphical Information System) maps. The GIS-linked data warehouse, which is entitled TIDE (Transportation Information for Decision Enhancement), incorporates all of the TINIS data, plus some data from the Pavement Management System data base.

Overview of TIDE Functionality

TIDE provides several basic improvements to what TINIS has historically provided:

- Ease of access and quick response
- The ability to revise questions “on the fly”, as initial results lead to new questions
- A way to look at data that was previously difficult or impossible to do
- The ability to correlate previously disparate but related information (e.g., road cross sectional data with crashes)
- Graphical presentation of the data, and
- Trend analysis.

TIDE provides a quick and relatively easy to use system for users to access, analyze and report on the data that is contained in TINIS and other extracted data files. TIDE combines the strengths of data warehousing with GIS mapping capabilities of spatial information. It converts the TINIS data (VSAM files) to Oracle relational data base tables, and utilizes GIS base maps through Arc-View. Other GIS information that is available to users includes town and county lines, maintenance divisions, all public roads, railroads, water bodies and wetlands, etc.

In order to address the various user needs and levels of comfort in using TIDE, and to provide for quick access to commonly asked questions, three query levels have been developed. All three query types produce results that are presented in a table format, which can then be exported and merged with spreadsheet, relational data base and word processing software for additional analysis and reporting. Also, the capability exists for the results to be displayed either in a report or GIS map format. Many of the reports and maps are pre-formatted. The three query types are:

:

- Standard Queries;

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- Template Queries; and
- Ad Hoc Queries.

Standard queries are generally very complex or routinely asked questions. Users select a hot button, which then prompts them for certain limited information such as location, route or town name, year of information desired, or any other data that is needed to address the specific topic area of concern.

Template queries are similar to standard queries, but generally require more user input. These queries can be modified by the user to include additional information from selected tables.

Ad hoc queries require more knowledge of the data and of TIDE, but present the greatest flexibility. Essentially, users develop their questions from scratch through use of GQL (Graphical Query Language). Tables are selected from a data diagram, from which specific data elements are selected. The user can select to qualify these data values for the specific type of question being asked (e.g., report the number of run off road crashes only on roads that have pavement widths greater than ten feet, and that have gravel shoulders less than four feet wide, with greater than 5,000 AADT, and provide injury severity and type of fixed object struck, for the period 1993-1998).

A Master Data Diagram that shows the various data tables and how they relate is available as well as a Metadata listing which shows each table's GQL attribute with its description.

Changing Technology

Phase I of TIDE is now operational, and Phase II is expected to enter the design phase in the fall of 2000. It will include enhancements to the Phase I effort with a major focus in developing a Location Referencing Management System. Some of the planned enhancements include:

- Incorporate ProjEx (Candidate Projects Tracking data base)
- Incorporate Annual Crash Rate Data for Links and Nodes
- Map Display of Number of Crashes at a Site
- Incorporate Truck Classification Data
- Incorporate Turning Movement Data
- Incorporate NE Traffic Monitoring System (TMS) Data
- Incorporate the Municipal Database
- Incorporate Highway Backlog Data
- Enable Display of ARAN Images with TIDE ArcView
- Enable SQL Queries from ArcView
- Enhance Mapping in ArcView

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For further information, contact Gerry Audibert in the Safety Management Section of the Bureau of Planning, Research & Community Services at the Maine Department of Transportation. Phone number is 207-287-8244/ e-mail is gerry.audibert@state.me.us.

[Click here to see the TIDE Master Data diagram](#)

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TIDE Tables and Attributes

GQL table	GQL attribute	Short description
Bridge	Appr rd wid (ft)	The width of the roadway approaching the bridge (feet), to the nearest foot
Bridge	Appr rd wid (m)	The width of the roadway approaching the bridge (meters), to the nearest foot (0.3 m)
Bridge	Appr shld wid lt (ft)	The most restricted approach road shoulder width on the left (feet)
Bridge	Appr shld wid lt (m)	The most restricted approach road shoulder width on the left (meters)
Bridge	Appr shld wid rt (ft)	The most restricted approach road shoulder width on the right (feet)
Bridge	Appr shld wid rt (m)	The most restricted approach road shoulder width on the right (meters)
Bridge	Appr span- compsite	The approach span type- composite, non composite, both
Bridge	Appr span- construction	The approach span type- construction (rolled, riveted, welded, bolted, etc.)
Bridge	Appr span- continuity	The approach span type- continuous, non continuous, both
Bridge	Appr span- material	The approach span type- material (steel, concrete, wood, etc.)
Bridge	Appr span- movable span	The approach span type- movable span (swing, bascule, lift, other)
Bridge	Appr span- sub type	The approach span type- sub type (deck, thru, pony, box, etc.)
Bridge	Appr span- type	The approach span type (arch, culvert, girder, rigid frame, slab, etc.)
Bridge	Appraisal date	The last month-year (mmyy) that the appraisal ratings (TINIS fields 567,568,569) were updated
Bridge	Approach align cond	The condition of the approach roadway alignment
Bridge	Approach align rating	The appraisal rating of the adequacy of the approach road alignment
Bridge	Brdg improv cost	Cost of the proposed bridge improvements in thousands of dollars
Bridge	Brdg median	An indication of whether the median is open or closed
Bridge	Brdg name	The common name assigned to the bridge
Bridge	Brdg rd wid (ft)	The width of the bridge roadway (feet), to nearest 0.1 foot
Bridge	Brdg rd wid (m)	The width of the bridge roadway (meters), to nearest 0.1 foot (0.03 meters)
Bridge	Bridge by state definition	Indicates if structure meets state criteria to be considered a bridge
Bridge	Bridge_no	Unique bridge number assigned by Maine DOT (required for GIS mapping)
Bridge	Byp det len ov (km)- new	Bypass detour length (kilometers) over the bridge ('new'), to nearest 0.1 mile (0.16 km)

Bridge	Byp det len ov (km)- old	Bypass detour length over - additional travel if bridge closed (kilometers), to nearest 0.1 mile (0.16 km)
Bridge	Byp det len ov (mi)- new	Bypass detour length (miles) over the bridge ('new'), to nearest 0.1 mile
Bridge	Byp det len ov (mi)- old	Bypass detour length over - additional travel if bridge closed (miles), to nearest 0.1 mile
Bridge	Byp det len und (km)- new	Bypass detour length (kilometers) under the bridge ('new'), to nearest 0.1 mile (0.16 km)
Bridge	Byp det len und (km)- old	Bypass detour length under - additional travel if bridge closed (kilometers), to nearest 0.1 mile (0.16 km)
Bridge	Byp det len und (mi)- new	Bypass detour length (miles) under the bridge ('new'), to nearest 0.1 mile
Bridge	Byp det len und (mi)- old	Bypass detour length under - additional travel if bridge closed (miles), to nearest 0.1 mile
Bridge	Chan-prot cond	The condition of the channel and channel protection
Bridge	Channel-protect underwater	Underwater - channel and channel protection - physical condition
Bridge	Clear span len (ft)	Clear span length of the structure (feet) measured perpendicular between face to face of abutment or the sum of individual spans for
Bridge	Clear span len (m)	Clear span length of the structure (meters) measured perpendicular between face to face of abutment or the sum of individual spans for
Bridge	Co-custodian	Identifies the co-custodian of the structure as designated by DOT
Bridge	Co-owner	Identifies the co-owner of the structure as designated by DOT
Bridge	County name	The county name (Androscoggin, Aroostook, Cumberland, ..., York)
Bridge	Crit feat date- crit det	Critical feature inspection date - fracture critical details (mmddyy)
Bridge	Crit feat date- spec insp	Critical feature inspection date - other special inspection
Bridge	Crit feat date- und water	Critical feature inspection date - under water inspection (mmddyy)
Bridge	Crit feat- crit det	Critical feature inspection - feature critical details (xmm) x = Yes or No, mm = number of months between inspections
Bridge	Crit feat- spec insp	Critical feature inspection - other special inspection (xmm) x = Yes or No, mm= number of months between inspections
Bridge	Crit feat- und water	Critical feature inspection - underwater inspection (xmm) x = Yes or No, mm = number of months between inspections
Bridge	Critical defense hwy	Indicates if there is a critical defense highway over or under the bridge
Bridge	Culvert condition	The condition of the culvert and retaining walls
Bridge	Custodian	Identifies the custodian of the structure as designated by DOT
Bridge	Date inspec	The date the bridge was inspected
Bridge	Date paint	The year the bridge was last painted
Bridge	Deck condition	The condition rating of the deck

Bridge	Deck geom rating	The deck geometry appraisal rating
Bridge	Deck type	The type of deck on the bridge
Bridge	Deck wid (ft)	The out-to-out width of the deck (feet) to the nearest 0.1 foot
Bridge	Deck wid (m)	The out-to-out width of the deck (meters) to the nearest 0.1 foot (0.3 meters)
Bridge	Def kmpt on	The distance (kilometer point) that the bridge is located from the beginning of the defense road, to the nearest 0.01 mile (0.016 km)
Bridge	Def kmpt und	The kilometer point on the defense system for the route under the bridge, to the nearest 0.01 mile (0.016 km)
Bridge	Def milept on	The distance (milepoint) that the bridge is located from the beginning of the defense road, to the nearest 0.01 mile
Bridge	Def milept und	The milepoint on the defense system for the route under the bridge, to the nearest 0.01 mile
Bridge	Def sec len on (km)	The length of the defense section (kilometers) for the route on the bridge, to the nearest 0.1 mile (0.16 km)
Bridge	Def sec len on (mi)	The length of the defense section (miles) for the route on the bridge, to the nearest 0.1 mile
Bridge	Def sec len und (km)	The length of the defense section (kilometers) for the route under the bridge, to the nearest 0.1 mile (0.16 km)
Bridge	Def sec len und (mi)	The length of the defense section (miles) for the route under the bridge, to the nearest 0.1 mile
Bridge	Design load (kg)	The live load for which the structure was designed (kilograms) - Cooper class for railroad, '00' for pedestrian
Bridge	Design load (tons)	The live load for which the structure was designed (tons) - Cooper class for railroad, '00' for pedestrian
Bridge	Design load type	The type of loading for which the structure was designed
Bridge	Feature on structure	The features on the structure
Bridge	Feature under structure	The name or names of the feature under the structure
Bridge	Fed aid proj no	The federal aid project number of the most recent project
Bridge	Foundation type 1	The first type of sub-structure foundation (piles, ledges, etc.)
Bridge	Foundation type 2	The second type of sub-structure foundation (piles, ledges, etc.)
Bridge	Foundation type 3	The third type of sub-structure foundation (piles, ledges, etc.)
Bridge	Gen recommend- action	General recommendation - action required to repair
Bridge	Gen recommend- reason	General recommendation - reason for the recommendation
Bridge	Grade adequacy	The adequacy of the grade at the bridge (good, fair, poor, critical)
Bridge	Historic significance	Eligibility for inclusion in the national register of historic places
Bridge	Inspect by crane yr	The year in which a crane was used to inspect the bridge

Bridge	Inspect cycle	The interval between inspection in months
Bridge	Inspector	The initials of the inspector who performed the most recent inspection of the bridge
Bridge	Inv rating 1- load (kg)	Inventory rating 1 - gross loading (direct kilograms to nearest ton (907 kg), if railroad report Cooper class, if pedestrian report 00)
Bridge	Inv rating 1- load (ton)	Inventory rating 1 - gross loading (direct tons, if railroad report Cooper class, if pedestrian report 00)
Bridge	Inv rating 2- load (kg)	Inventory rating 2 - gross loading (direct kilograms to nearest ton (907 kg), if railroad report Cooper class, if pedestrian report 00)
Bridge	Inv rating 2- load (ton)	Inventory rating 2 - gross loading (direct tons, if railroad report Cooper class, if pedestrian report 00)
Bridge	Inv rating 3- load (kg)	Inventory rating 3 - gross loading (direct kilograms to nearest ton (907 kg), if railroad report Cooper class, if pedestrian report 00)
Bridge	Inv rating 3- load (ton)	Inventory rating 3 - gross loading (direct tons, if railroad report Cooper class, if pedestrian report 00)
Bridge	Inv rating 4- load (kg)	Inventory rating 4 - gross loading (direct kilograms to nearest ton (907 kg), if railroad report Cooper class, if pedestrian report 00)
Bridge	Inv rating 4- load (ton)	Inventory rating 4 - gross loading (direct tons, if railroad report Cooper class, if pedestrian report 00)
Bridge	Inventory rating 1	The safe utilization stress level to which a structure may be subjected, 1
Bridge	Inventory rating 2	The load which can safely utilize the existing structure for an indefinite period, 2
Bridge	Inventory rating 3	The load which can safely utilize the existing structure for an indefinite period, 3
Bridge	Inventory rating 4	The load which can safely utilize the existing structure for an indefinite period, 4
Bridge	Joint 1 - condition	The first joint on the structure - condition
Bridge	Joint 1 - num	The first joint on the structure - number
Bridge	Joint 1 - type 1	The first joint on the structure - type 1
Bridge	Joint 1 - type 2	The first joint on the structure - type 2
Bridge	Joint 2 - condition	The second joint on the structure - condition
Bridge	Joint 2 - num	The second joint on the structure - number
Bridge	Joint 2 - type 1	The second joint on the structure - type 1
Bridge	Joint 2 - type 2	The second joint on the structure - type 2
Bridge	Joint 3 - condition	The third joint on the structure - condition
Bridge	Joint 3 - num	The third joint on the structure - number
Bridge	Joint 3 - type 1	The third joint on the structure - type 1
Bridge	Joint 3 - type 2	The third joint on the structure - type 2

Bridge	Joint 4 - condition	The fourth joint on the structure - condition
Bridge	Joint 4 - num	The fourth joint on the structure - number
Bridge	Joint 4 - type 1	The fourth joint on the structure - type 1
Bridge	Joint 4 - type 2	The fourth joint on the structure - type 2
Bridge	Lanes on	The number of lanes on the bridge
Bridge	Lanes under	The number of lanes under the structure
Bridge	Latitude	The latitude of the structure in (degrees, minutes)
Bridge	Left curb rev (in)	Distance (inches) from the surface of the deck to the top of the left curb when facing north or west direction of travel
Bridge	Left curb rev (mm)	Distance (millimeters) from the surface of the deck to the top of the left curb when facing north or west direction of travel
Bridge	Link_id	Link identifier (county, low node, high node)
Bridge	Loc type	Location type ('LINK' or 'NODE'), indicating if the location was specified along a link or at a node
Bridge	Location description	A narrative description of the bridge location
Bridge	Longitude	The longitude of the structure (degrees, minutes)
Bridge	Maint division	The bridge maintenance division name, under whose jurisdiction the bridge has been placed
Bridge	Max span len (ft)	The length of the maximum span (ft)
Bridge	Max span len (m)	The length of the maximum span (meters)
Bridge	Min lat undclr lt (ft)	Minimum clearance on the left of the roadway beneath the structure regardless of the direction of travel (feet), to the nearest 0.1 foot
Bridge	Min lat undclr lt (m)	Minimum clearance on the left of the roadway beneath the structure regardless of direction of travel (meters), to the nearest 0.1 foot
Bridge	Min lat undclr rt (ft)	Minimum clearance on the right of the roadway beneath the structure regardless of the direction of travel (feet), to the nearest 0.1 foot
Bridge	Min lat undclr rt (m)	Minimum clearance on the right of the roadway beneath the structure regardless of direction of travel (meters), to the nearest 0.1 foot (0.03 m)
Bridge	Min ver clr ovr br rd (ft,in)	Actual minimum vertical clearance over the bridge roadway (feet and inches, xxyy), to nearest inch
Bridge	Min ver clr ovr br rd (m)	Actual minimum vertical clearance over the bridge roadway (meters), to nearest inch (0.03 m)
Bridge	Min ver clr rte ovr (ft,in)	Minimum vertical clearance over the roadway (feet and inches, xxyy), to nearest inch
Bridge	Min ver clr rte ovr (m)	Minimum vertical clearance over the roadway (meters), to nearest inch (0.03 m)
Bridge	Min ver clr rte und (ft,in)	Minimum vertical clearance (route under) for 10 ft width of pavement or traveled part of road where clearance is greatest (feet and inches, xxyy)

Bridge	Min ver clr rte und (m)	Minimum vertical clearance (route under) for 3.05 meter (10 ft) width of pavement or traveled part of road where clearance is greatest (meters)
Bridge	Min ver und clr (ft,in)	Minimum vertical clearance from the road or RR track beneath the structure to underside of the bridge (feet and inches, xxyy)
Bridge	Min ver und clr (m)	Minimum vertical clearance from the road or RR track beneath the structure to the underside of the bridge (meters), to nearest inch (0.03 m)
Bridge	Navig control	Whether or not navigational control exists
Bridge	Navig hor clr (ft)	The minimum horizontal navigation clearance under the bridge (feet)
Bridge	Navig hor clr (m)	The minimum horizontal navigation clearance under the bridge (meters)
Bridge	Navig ver clr (ft)	The minimum vertical clearance as measured from a datum specified on the navigational permit (feet)
Bridge	Navig ver clr (m)	The minimum vertical clearance as measured from a datum specified on the navigational permit (meters)
Bridge	NBIS bridge	Indicates if the bridge meets minimum length specified to be designated as a bridge
Bridge	Node_id	Node identifier (county, node number)
Bridge	Num appr spans	The number of approach spans in the structure
Bridge	Num main spans	The number of spans in the main unit
Bridge	Offset (km)	Offset distance (kilometers) from low node along the link - bridge located to the nearest 0.01 mile (0.016 km)
Bridge	Offset (mi)	Offset distance (miles) from low node along the link - bridge located to the nearest 0.01 mile
Bridge	Oper rating 1- load (kg)	Operator rating 1 - gross loading (direct kilograms to nearest ton (907 kg), if railroad report Cooper class, if pedestrian report 00)
Bridge	Oper rating 1- load (ton)	Operator rating 1 - gross loading (direct tons, if railroad report Cooper class, if pedestrian report 00)
Bridge	Oper rating 2- load (kg)	Operator rating 2 - gross loading (direct kilograms to nearest ton (907 kg), if railroad report Cooper class, if pedestrian report 00)
Bridge	Oper rating 2- load (ton)	Operator rating 2 - gross loading (direct tons, if railroad report Cooper class, if pedestrian report 00)
Bridge	Oper rating 3- load (kg)	Operator rating 3 - gross loading (direct kilograms to nearest ton (907 kg), if railroad report Cooper class, if pedestrian report 00)
Bridge	Oper rating 3- load (ton)	Operator rating 3 - gross loading (direct tons, if railroad report Cooper class, if pedestrian report 00)
Bridge	Oper rating 4- load (kg)	Operator rating 4 - gross loading (direct kilograms to nearest ton (907 kg), if railroad report Cooper class, if pedestrian report 00)
Bridge	Oper rating 4- load (ton)	Operator rating 4 - gross loading (direct tons, if railroad report Cooper class, if pedestrian report 00)
Bridge	Operator rating 1	The maximum permissible stress level to which the structure may be subjected, 1
Bridge	Operator rating 2	The maximum permissible stress level to which the structure may be subjected, 2
Bridge	Operator rating 3	The maximum permissible stress level to which the structure may be subjected, 3

Bridge	Operator rating 4	The maximum permissible stress level to which the structure may be subjected, 4
Bridge	Owner	Identifies the owner of the structure as designated by DOT
Bridge	Paint condition	The physical condition of the paint on the structure
Bridge	Parallel brdg no	The bridge number for a parallel structure
Bridge	Parallel struct desig	Indicates situations where separate structures carry the inv rte in opposite directions
Bridge	Pier and abut protection	The presence and adequacy of pier or abutment prot features for nav control
Bridge	Proj total cost	Represents the total cost in thousands of dollars (includes cost not in TINIS items 94, 95)
Bridge	Prop improv len (ft)	The length of the proposed improvement (feet) reported to the nearest foot
Bridge	Prop improv len (m)	The length of the proposed improvement (meters) reported to the nearest foot (0.3 m)
Bridge	Pub hwy brdg fed def	Indicates ('Y' or 'N') if this is a public highway bridge by federal definition (TINIS S630 = 1 or S522 = '8N' and S112 = 'Y')
Bridge	Pub hwy brdg state def	Indicates ('Y' or 'N') if this is a public highway bridge by state definition (TINIS S630 = 1 and S522 <> '8N')
Bridge	Railing transition	The transition for the railing on the structure
Bridge	Railing type	The type of railing on the structure
Bridge	Railing- approach guardrail	The type of approach guardrail used
Bridge	Railing- approach rail end	The approach rail end
Bridge	Retain wall rating	Rating of retaining wall
Bridge	Right curb rev (in)	Distance (inches) from the surface of the deck to the top of the right curb when facing north or west direction of travel
Bridge	Right curb rev (mm)	Distance (millimeters) from the surface of the deck to the top of the right curb when facing north or west direction of travel
Bridge	Road improv cost	Cost of the proposed roadway improvement in thousands of dollars
Bridge	Safe load cap rating	The safe load capacity appraisal rating
Bridge	Scour vulnerability	Identifies the status of the bridge regarding its vulnerability to scour
Bridge	Segment_id	Roadway segment identifier for the Primary segment associated with each bridge (for the road on the bridge, used in the join to Road Segment)
Bridge	Shaft type 1	The type of sub-structure, mass concrete, open concrete, etc.
Bridge	Shaft type 2	The type of sub-structure, mass concrete, open concrete, etc.
Bridge	Shaft type 3	The type of sub-structure, mass concrete, open concrete, etc.
Bridge	Sidewalk wid lt (ft)	The width of the sidewalk on the left of the structure (feet)

Bridge	Sidewalk wid lt (m)	The width of the sidewalk on the left of the structure (meters)
Bridge	Sidewalk wid rt (ft)	The width of the sidewalk on the right of the structure (feet)
Bridge	Sidewalk wid rt (m)	The width of the sidewalk on the right of the structure (meters)
Bridge	Skew	The actual skew of the bridge reported to the nearest degree
Bridge	Skew (est)	The estimated skew of the bridge (degrees)
Bridge	Span composite	The main span composite
Bridge	Span construct	The main span construction
Bridge	Span continuity	The main span continuity
Bridge	Span material	The main span material
Bridge	Span movable	The main span - is it movable, and by what mechanism
Bridge	Span sub type	The main span sub type
Bridge	Span type	The main span type of the structure
Bridge	Struct cond	The structure appraisal rating of the bridge
Bridge	Struct flared	Whether or not the bridge is flared
Bridge	Struct len (ft)	The length of the structure (feet)
Bridge	Struct len (m)	The length of the structure (meters)
Bridge	Struct posting- defic sign	Indicates deficient signing for the bridge
Bridge	Struct posting- status	Indicates the bridge programmed status
Bridge	Struct posting- type	Indicates the type of bridge posting
Bridge	Substruct cond	The condition of the substructure
Bridge	Substruct underwat cond	Underwater physical condition of piers, abutments, piles, fenders, and footings
Bridge	Superstruct cond	The condition of the superstructure
Bridge	Suppl top inspect 1	Supplemental topside inspection - 1st of 4 additional types of inspection equipment and/or needs to properly evaluate the structure condition
Bridge	Suppl top inspect 2	Supplemental topside inspection - 2nd of 4 additional types of inspection equipment and/or needs to properly evaluate the structure condition
Bridge	Suppl top inspect 3	Supplemental topside inspection - 3rd of 4 additional types of inspection equipment and/or needs to properly evaluate the structure condition

Bridge	Suppl top inspect 4	Supplemental topside inspection - 4th of 4 additional types of inspection equipment and/or needs to properly evaluate the structure condition
Bridge	Tot hor clr on (ft)	The total horizontal clearance for the bridge (feet), to nearest 0.1 foot
Bridge	Tot hor clr on (m)	The total horizontal clearance for the bridge (meters), to nearest 0.1 foot (0.03 m)
Bridge	Tot hor clr rte und (ft)	The total horizontal clearance for the route under the structure (feet), to nearest 0.1 foot
Bridge	Tot hor clr und (m)	The total horizontal clearance for the route under the structure (meters), to nearest 0.1 foot (0.03 m)
Bridge	Tract trail load lim (kg)	The tractor-trailer load limit on the bridge (kilograms), reported to the nearest ton (907 kg)
Bridge	Tract trail load lim (ton)	The tractor-trailer load limit on the bridge (tons), reported to the nearest ton
Bridge	Type of work	Describes the type of work to be completed by this project
Bridge	Type of work agency	Indicates whether the proposed work is to be done by force account or by contract (see Type of Work 1 field)
Bridge	Type service on	The type of service on the bridge (highway, railroad, pedestrian, etc.)
Bridge	Type service under	The type of service under the bridge (highway, railroad, pedestrian, etc.)
Bridge	Underclear ver-hor rating	The vertical and horizontal underclearance appraisal rating for the thru roadway to the superstructure or substructure unit
Bridge	Underwater inspec 1	1st of 4 types of equipment needed to properly inspect the structure and/or the recommended additional inspection
Bridge	Underwater inspec 2	2nd of 4 types of equipment needed to properly inspect the structure and/or the recommended additional inspection
Bridge	Underwater inspec 3	3rd of 4 types of equipment needed to properly inspect the structure and/or the recommended additional inspection
Bridge	Underwater inspec 4	4th of 4 types of equipment needed to properly inspect the structure and/or the recommended additional inspection
Bridge	Utility attached	The type of utilities attached to the bridge, telephone, water, sewer, gas, tv cable, and power
Bridge	Veh load lim (kg)	The vehicle load limit on the bridge (kilograms) reported to the nearest ton (907 kg)
Bridge	Veh load lim (ton)	The vehicle load limit on the bridge (tons) reported to the nearest ton
Bridge	Waterway adeq rating- code	Code for the waterway, scour erosion, slope protection and stream capacity appraisal rating
Bridge	Waterway adequacy rating	The waterway, scour erosion, slope protection and stream capacity appraisal rating
Bridge	Wear surf condition	The condition rating of the wearing surface on the structure (see Long Description for more info)
Bridge	Wear surf membrane	The type of wearing surface membrane on the structure
Bridge	Wear surf protect	The type of wearing surface deck protection
Bridge	Wear surf replace year	The year in which the wearing surface was replaced
Bridge	Wear surf thick (in)	The wearing surface thickness on the bridge deck (inches)

Bridge	Wear surf thick (mm)	The wearing surface thickness on the bridge deck (millimeters)
Bridge	Wear surf type	The type of wearing surface material on the structure
Bridge	Year	Year of TIDE data
Bridge	Year built	The year in which the bridge was built-the first position is the century (9=19,8=18)
Bridge	Year built (est)	The estimated year in which the bridge was built
Bridge	Year cost	The year that the costs of work estimated in items 94,95,96 (bridge improvement costs, roadway improv costs, total proj costs) were based upon
Bridge	Year repair 1	Indicates the most recent year the bridge was repaired
Bridge	Year repair 1- type	The type of repair for the most recent year the bridge was repaired
Bridge	Year repair 2	Indicates the second most recent year the bridge was repaired
Bridge	Year repair 2- type	The type of repair for the second most recent year the bridge was repaired
Bridge	Year repair 3	Indicates the third most recent year the bridge was repaired
Bridge	Year repair 3- type	The type of repair for the third most recent year the bridge was repaired
Bridge Code	Approach align cond- code	Code for the condition of the approach roadway alignment
Bridge Code	Approach align rating- code	Code for the appraisal rating of the adequacy of the approach road alignment
Bridge Code	Bridge by state definition- code	Code indicating if structure meets state criteria to be considered a bridge
Bridge Code	Bridge_no	Unique bridge number assigned by Maine DOT (required for GIS mapping)
Bridge Code	Channel-protect underwater- code	Code for underwater - channel and channel protection - physical condition
Bridge Code	Co-custodian- code	Code identifying the co-custodian of the structure as designated by DOT
Bridge Code	Co-owner- code	Code identifying the co-owner of the structure as designated by DOT
Bridge Code	Critical defense hwy- code	Code indicating if there is a critical defense highway over or under the bridge
Bridge Code	Culvert condition- code	Code for the condition of the culvert and retaining walls
Bridge Code	Custodian- code	Code identifying the custodian of the structure as designated by DOT
Bridge Code	Deck condition- code	Code for the condition rating of the deck
Bridge Code	Deck type- code	Code for the type of deck on the bridge
Bridge Code	Design loading- code	Code for the live load for which the structure was designed
Bridge Code	Foundation type 1- code	Code for the type of sub-structure foundation 1, piles, ledges, etc.

Bridge Code	Foundation type 2- code	Code for the type of sub-structure foundation 2, piles, ledges, etc.
Bridge Code	Foundation type 3- code	Code for the type of sub-structure foundation 3, piles, ledges, etc.
Bridge Code	Gen recommend- action- code	Code for the general recommendation - action required to repair
Bridge Code	Gen recommend- reason- code	Code for the general recommendation - reason for the recommendation
Bridge Code	Historic significance- code	Code for the eligibility for inclusion in the national register of historic places
Bridge Code	Inventory rating 1- code	Code for the safe utilization stress level to which a structure may be subjected, 1
Bridge Code	Inventory rating 2- code	Code for the load which can safely utilize the existing structure for an indefinite period, 2
Bridge Code	Inventory rating 3- code	Code for the load which can safely utilize the existing structure for an indefinite period, 3
Bridge Code	Inventory rating 4- code	Code for the load which can safely utilize the existing structure for an indefinite period, 4
Bridge Code	Joint 1 - condition- code	Code for the first joint on the structure - condition
Bridge Code	Joint 1 - type 1- code	Code for the first joint on the structure - type 1
Bridge Code	Joint 1 - type 2- code	Code for the first joint on the structure - type 2
Bridge Code	Joint 2 - condition- code	Code for the second joint on the structure - condition
Bridge Code	Joint 2 - type 1- code	Code for the second joint on the structure - type 1
Bridge Code	Joint 2 - type 2- code	Code for the second joint on the structure - type 2
Bridge Code	Joint 3 - condition- code	Code for the third joint on the structure - condition
Bridge Code	Joint 3 - type 1- code	Code for the third joint on the structure - type 1
Bridge Code	Joint 3 - type 2- code	Code for the third joint on the structure - type 2
Bridge Code	Joint 4 - condition- code	Code for the fourth joint on the structure - condition
Bridge Code	Joint 4 - type 1- code	Code for the fourth joint on the structure - type 1
Bridge Code	Joint 4 - type 2- code	Code for the fourth joint on the structure - type 2
Bridge Code	Operator rating 1- code	Code for the maximum permissible stress level to which the structure may be subjected, 1
Bridge Code	Operator rating 2- code	Code for the maximum permissible stress level to which the structure may be subjected, 2
Bridge Code	Operator rating 3- code	Code for the maximum permissible stress level to which the structure may be subjected, 3
Bridge Code	Operator rating 4- code	Code for the maximum permissible stress level to which the structure may be subjected, 4
Bridge Code	Owner- code	Code identifying the owner of the structure as designated by DOT

Bridge Code	Paint condition- code	Code for the physical condition of the paint on the structure
Bridge Code	Pier and abut protection- code	Code for the presence and adequacy of pier or abutment prot features for nav control
Bridge Code	Railing transition- code	Code for the transition for the railing on the structure
Bridge Code	Railing type- code	Code for the type of railing on the structure
Bridge Code	Railing- approach guardrail- cod	The type of approach guardrail used
Bridge Code	Railing- approach rail end- code	Code for the approach rail end
Bridge Code	Retain wall rating- code	Code for rating of retaining wall
Bridge Code	Safe load cap rating- code	Code for the safe load capacity appraisal rating
Bridge Code	Scour vulnerability- code	Code identifying the status of the bridge regarding its vulnerability to scour
Bridge Code	Shaft type 1- code	Code for the type of sub-structure 1, mass concrete, open concrete, etc.
Bridge Code	Shaft type 2- code	Code for the type of sub-structure 2, mass concrete, open concrete, etc.
Bridge Code	Shaft type 3- code	Code for the type of sub-structure 3, mass concrete, open concrete, etc.
Bridge Code	Span composite- code	Code for the main span composite
Bridge Code	Span construct- code	Code for the main span construction
Bridge Code	Span continuity- code	Code for the main span continuity
Bridge Code	Span material- code	Code for the main span material
Bridge Code	Span movable- code	Code for the main span - is it movable, and by what mechanism
Bridge Code	Span sub type- code	Code for the main span sub type
Bridge Code	Span type- code	Code for the main span type of the structure
Bridge Code	Struct posting- defic sign- code	Code indicating deficient signing for the bridge
Bridge Code	Struct posting- status- code	Code indicating the bridge programmed status
Bridge Code	Struct posting- type- code	Code indicating the type of bridge posting
Bridge Code	Sub struct cond- code	Code for the condition of the substructure
Bridge Code	Substruct underwat cond- code	Code for underwater physical condition of piers, abutments, piles, fenders, and footings
Bridge Code	Superstruct cond- code	Code for the condition of the superstructure
Bridge Code	Supplement inspect- code	Code for supplemental topside inspection - four additional types of inspections

Bridge Code	Type of work- code	Code for the type of work to be completed by this project
Bridge Code	Type service on- code	Code for the type of service on the bridge (highway, railroad, pedestrian, etc.)
Bridge Code	Type service under- code	Code for the type of service under the bridge (highway, railroad, pedestrian, etc.)
Bridge Code	Underwater inspec- code	Code identifying up to four types of equipment needed to inspect the structure
Bridge Code	Waterway adequacy rating- code	Code for the waterway, scour erosion, slope protection and stream capacity appraisal rating
Bridge Code	Wear surf condition- code	Code for the condition rating of the wearing surface on the structure
Bridge Code	Wear surf membrane- code	Code for the type of wearing surface membrane on the structure
Bridge Code	Wear surf protect- code	Code for the type of wearing surface deck protection
Bridge Code	Wear surf type- code	Code for the type of wearing surface material on the structure
Bridge Code	Work agency- code	Code indicating whether the proposed work is to be done by force account of by contract (see Type of Work field)
Bridge Code	Year	Year of TIDE data
Bridge Code	Year repair 1- type- code	Code for the type of repair for the most recent year the bridge was repaired
Bridge Code	Year repair 2- type- code	Code for the type of repair for the second most recent year the bridge was repaired
Bridge Code	Year repair 3- type- code	Code for the type of repair for the third most recent year the bridge was repaired
Brdg Element	Brdg seg no	Bridge segment number
Brdg Element	Bridge_no	Unique bridge number assigned by Maine DOT
Brdg Element	Cond state 1	Indicates the condition state 1 of this element in percent or actual quantity
Brdg Element	Cond state 2	Indicates the condition state 2 of this element in percent or actual quantity
Brdg Element	Cond state 3	Indicates the condition state 3 of this element in percent or actual quantity
Brdg Element	Cond state 4	Indicates the condition state 4 of this element in percent or actual quantity
Brdg Element	Critical % of elem	Critical percent of element
Brdg Element	Element description	Bridge element unit and description
Brdg Element	Element description- code	Code for bridge element unit and description
Brdg Element	ELEMSEQNO	Bridge element sequence number (assigned, not from TINIS M record)
Brdg Element	Environment	Environment condition
Brdg Element	Percent Y/N	Y = values in condition states are percentages of total element quantity, N = values are actual values

Brdg Element	Quantity	The total quantity for this bridge element
Brdg Element	Year	Year of TIDE data
Bridge Loc	Bridge_no	Unique bridge number assigned by Maine DOT
Bridge Loc	Loc type	Location type ('LINK' or 'NODE'), indicating if the location was specified along a link or at a node
Bridge Loc	Segm node id	Segment/Node id (either the Segment_id or the Node_id, depending on type of location)
Bridge Loc	Segm offset (km)	Offset distance from the beginning of the segment (kilometers)
Bridge Loc	Segm offset (mi)	Offset distance from the beginning of the segment (miles)
Bridge Loc	Segment_id	Roadway segment identifier for the Primary segment associated with each bridge (used to join to the Road Segment table)
Bridge Loc	Year	Year of TIDE data
Brdg Pointer	Bridge_no	Unique bridge number assigned by Maine DOT
Brdg Pointer	Link_id	Link identifier (county, low node, high node) of the link associated with the bridge (on or under)
Brdg Pointer	Ptr seq no	Pointer sequence number, indicating the pointer record number for this bridge
Brdg Pointer	Year	Year of TIDE data
Brdg Repair	Brdg elem no	Bridge repair element number
Brdg Repair	Bridge_no	Unique bridge number assigned by Maine DOT
Brdg Repair	Work effort	Level of repair effort required
Brdg Repair	Work effort- code	Code for level of repair effort required
Brdg Repair	Work element - repair	The work element for the bridge with the repair work needed on the element
Brdg Repair	Work element - repair- code	Code for repair work needed
Brdg Repair	Work priority	Bridge repair priority for this work element
Brdg Repair	Work priority- code	Code for bridge repair priority for this work element
Brdg Repair	Year	Year of TIDE data
Brdg Segment	Brdg edit status	Status of edits for the bridge management record
Brdg Segment	Brdg seg no	Bridge segment number
Brdg Segment	Brdg segment len (ft)	Segment location length (feet)
Brdg Segment	Brdg segment len (m)	Segment location length (meters)

Brdg Segment	Brdg segment loc	Segment location description
Brdg Segment	Bridge_no	Unique bridge number assigned by Maine DOT
Brdg Segment	Date inspec	Date of inspection
Brdg Segment	Fill height	Buried fill height
Brdg Segment	Floor beams	Number of floor beams on the bridge
Brdg Segment	Girders	Number of girders on the bridge
Brdg Segment	Inspector	Initials of the inspector of the bridge
Brdg Segment	Quan edit stat	Indicates the status of the quantity edits
Brdg Segment	Rail runs	Number of runs of rail
Brdg Segment	Saltwater	Saltwater environment
Brdg Segment	Stringers	Number of stringers on the bridge
Brdg Segment	Wall len (ft)	Wall length (feet)
Brdg Segment	Year	Year of TIDE data
Close Proximity	Crash segm node id	Segment/Node id (either the segment_id or the node_id, depending on type of location) for the crash (joins to the CRASH table)
Close Proximity	Prox type	The close proximity node type (P = Primary, A = Associated)
Close Proximity	Segm node id	Segment/Node id (either the Segment_id or the Node_id, depending on type of location) for the crash or a 'close' node (joins to Rte Segment Node)
Commercial	Boosted reg gvw (kg)	Indicates the boosted registered gross vehicle weight (kilograms), to nearest 1000 pounds (454 kg)
Commercial	Boosted reg gvw (lb)	Indicates the boosted registered gross vehicle weight (pounds), to nearest 1000 pounds
Commercial	Cargo area	Indicates the cargo area code (unloaded, partially loaded, or loaded)
Commercial	Cargo area- code	Code indicating the cargo area code (unloaded, partially loaded, or loaded)
Commercial	Cargo body type	Indicates the cargo body type of the commercial vehicle
Commercial	Cargo body type- code	Code indicating the cargo body type of the commercial vehicle
Commercial	Carrier address	Address of the carrier name of the commercial vehicle
Commercial	Carrier city	Indicates the carrier city of the carrier name and address of the commercial vehicle
Commercial	Carrier name	Indicates the carrier name of the commercial vehicle
Commercial	Carrier name source	Source of the carrier name of the commercial vehicle

Commercial	Carrier name source- code	Code indicating the source of the carrier name of the commercial vehicle
Commercial	Carrier state	Carrier state of the carrier name and address of the commercial vehicle
Commercial	Carrier zip	Zip code of the carrier name and address of the commercial vehicle
Commercial	Commodity	Indicates the commodity code for the cargo carried
Commercial	Commodity- code	Code indicating the commodity code for the cargo carried
Commercial	Crash no	Report number assigned to the crash (unique within each year)
Commercial	Crash_id	Unique crash identifier, a concatenation of the crash year and crash number, for example, '1997-01234' (required for GIS mapping)
Commercial	Ctr fr to ctr rear ax (ft)	Distance from the center of the front axle to the center of the rearmost axle in the unit (feet)
Commercial	Ctr fr to ctr rear ax (m)	Distance from the corner of the front axle to the center of the rearmost axle in the unit (meters)
Commercial	Ctr rear dr to ctr rear ax (ft)	Distance from the center of the rearmost drive axle to the center of the rearmost axle on the unit (feet)
Commercial	Ctr rear dr to ctr rear ax (m)	Distance from the center of the rearmost drive axle to the center of the rearmost axle on the unit (meters)
Commercial	DOT number	Indicates the carrier DOT number of the commercial vehicle
Commercial	Driv license num	Indicates the driver license number of the driver of the commercial vehicle
Commercial	First name	Driver first name
Commercial	Hazmat class	Indicates the hazardous material division on the commercial vehicle placard
Commercial	Hazmat class- code	Code indicating the hazardous material division on the commercial vehicle placard
Commercial	Hazmat class-div	Indicates the hazardous material class and division on the commercial vehicle placard
Commercial	Hazmat class-div- code	Code indicating the hazardous material class and division on the commercial vehicle placard
Commercial	Hazmat involved	Indicates if hazardous materials were involved in this crash
Commercial	Hazmat placard no	Indicates the number from the hazardous material placard
Commercial	Hazmat released	Indicates if any hazardous materials were involved in the crash
Commercial	Hazmat trans	Indicates how the hazardous material was being transported
Commercial	Hazmat trans- code	Code indicating how the hazardous material was being transported
Commercial	Highway #1	Indicates the primary route number
Commercial	Highway #2	Indicates the secondary route number
Commercial	ICC number	Indicates the ICC number of the commercial vehicle

Commercial	Interstate carrier	Indicates if the carrier is commercial
Commercial	Last name	Last name of the driver of the commercial vehicle
Commercial	Manuf gvw (kg)	Indicates the combined gross vehicle weight from the manufacturers specifications (kilograms), to nearest 1000 pounds (454 kg)
Commercial	Manuf gvw (lb)	Indicates the combined gross vehicle weight from the manufacturers specifications (pounds), to nearest 1000 pounds
Commercial	Middle init	Middle initial of the commercial vehicle driver
Commercial	Num axles	Number of axles
Commercial	Permit- overheight	Indicates the commercial vehicle has overheight permit issued
Commercial	Permit- overlength	Indicates the commercial vehicle has overlength permit issued
Commercial	Permit- overweight	Indicates the commercial vehicle has overweight permit issued
Commercial	Permit- overwidth	Indicates the commercial vehicle has overwidth permit issued
Commercial	Reg gvw (kg)	Registered gross vehicle weight (kilograms), to nearest 1000 pounds (454 kg)
Commercial	Reg gvw (lb)	Registered gross vehicle weight (pounds), to nearest 1000 pounds
Commercial	Sequence event 1	Describes the sequence of events in the crash, 1
Commercial	Sequence event 1- code	Code for the sequence of events in the crash, 1
Commercial	Sequence event 2	Describes the sequence of events in the crash, 2
Commercial	Sequence event 2- code	Code for the sequence of events in the crash, 2
Commercial	Sequence event 3	Describes the sequence of events in the crash, 3
Commercial	Sequence event 3- code	Code for the sequence of events in the crash, 3
Commercial	Sequence event 4	Describes the sequence of events in the crash, 4
Commercial	Sequence event 4- code	Code for the sequence of events in the crash, 4
Commercial	Traf access	Type of traffic access
Commercial	Traf access- code	Code indicating the type of traffic access
Commercial	Traffic way	Indicates the type of traffic way
Commercial	Traffic way- code	Code indicating the type of traffic way
Commercial	Trailer length (ft)	Length of the trailer (ft)
Commercial	Trailer length (m)	Length of the trailer (meters)

Commercial	Unit length (ft)	Describes the overall length of the unit (feet)
Commercial	Unit length (m)	Describes the overall length of the unit (meters)
Commercial	Unit no	Unit number of vehicle involved in crash
Commercial	Veh id no	Commercial vehicle identification number
Commercial	Veh reg no	Commercial vehicle registration number
Commercial	Veh reg state	Commercial vehicle registered state
Commercial	Veh reg state- code	Indicates the commercial vehicle registered state
Commercial	Veh type- code	The best description of the commercial vehicle type
Commercial	Vehicle type	Code for the best description of the commercial vehicle type
Commercial	Year	Year of crash data
County	Cnty	County number from standard geocodes (01, 03, 05, ..., 31)
County	County name	The county name
Passenger	Crash no	Report number assigned to the crash (unique within each year)
Passenger	Crash year	Year of the crash
Passenger	Crash_id	Unique crash identifier, a concatenation of the crash year and crash number, for example, '1997-01234' (required for GIS mapping)
Passenger	Passenger injury	Passenger injury type (K=fatal, A=incapacitating, B=non-incapacitating, C=possible injury, Ped only, unknown)
Passenger	Passenger injury- code	Code for passenger injury type (K=fatal, A=incapacitating, B=non-incapacitating, C=possible injury, Ped only, unknown)
Passenger	Passngr age	Passenger age - 01-97 actual age, 98 or older, 99 = unknown
Passenger	Passngr seq no	Passenger sequence number
Passenger	Passngr sex	Passenger sex - 1=male,2=female,9=unknown
Passenger	Unit no	Unit number of vehicle involved in crash
Vehicle	Apparent contrib factor 1	Apparent contributing factor #1 as it applies to human actions or by vehicle factors in officer opinion
Vehicle	Apparent contrib factor 1- code	Code for apparent contributing factor #1 as it applies to human actions or by vehicle factors in officer opinion
Vehicle	Apparent contrib factor 2	Apparent contributing factor #2 as it applies to human actions or by vehicle factors in officer opinion
Vehicle	Apparent contrib factor 2- code	Code for apparent contributing factor #2 as it applies to human actions or by vehicle factors in officer opinion
Vehicle	Crash no	Report number assigned to the crash (unique within each year)

Vehicle	Crash year	Year of the crash
Vehicle	Crash_id	Unique crash identifier, a concatenation of the crash year and crash number, for example, '1997-01234' (required for GIS mapping)
Vehicle	Driv sex	Sex of the driver - 1=male,2=female,9=unknown
Vehicle	Driver age	The age of the driver of unit
Vehicle	Driver license state	State that issued the driver's license code (20 = Maine)
Vehicle	Driver license state- code	Code for the state that issued the driver's license code (20 = Maine)
Vehicle	Driver phys cond	The apparent physical condition of the driver as observed by the officer
Vehicle	Driver phys cond- code	Code for the apparent physical condition of the driver as observed by the officer
Vehicle	Driver type injury	Driver injury type (K=fatal, A=incapacitating, B=non-incapacitating, C=possible injury, Ped only, unknown)
Vehicle	Driver type injury- code	Code for driver injury type (K=fatal, A=incapacitating, B=non-incapacitating, C=possible injury, Ped only, unknown)
Vehicle	Num occupants	Number of occupants in the crash unit (including the driver)
Vehicle	Pre-crash action	Pre-crash action of the veh, ped or bicyclist categorized by the police officer
Vehicle	Pre-crash action- code	Code for pre-crash action of the veh, ped or bicyclist categorized by the police officer
Vehicle	Unit no	Unit number of vehicle involved in the crash
Vehicle	Veh type code	Code for type of vehicle involved in the crash
Vehicle	Vehicle type	Type of vehicle involved in the crash
Crash	Cnty	County number from standard geocodes (01, 03, 05, ..., 31)
Crash	Construct-maint	Indicates if the crash occurred in a construction or maintenance area
Crash	Construct-maint- code	Code indicating if the crash occurred in a construction or maintenance area
Crash	County name	The county name (Androscoggin, Aroostook, Cumberland, ..., York)
Crash	Crash cost	The computed, estimated cost of each crash based on standard costs per injury type (K, A, B, C) and the cost for each vehicle with property damage only
Crash	Crash date	The date when the crash occurred
Crash	Crash no	Report number assigned to the crash (unique within each year)
Crash	Crash type	The type of crash as determined by the police officer
Crash	Crash type- code	Code for the type of crash as determined by the police officer
Crash	Crash year	Year of the crash

Crash	Crash_id	Unique crash identifier, a concatenation of the crash year and crash number, for example, '1997-01234' (required for GIS mapping)
Crash	Day of week	The day of the week when the crash occurred
Crash	Day of week- code	Code for the day of the week when the crash occurred
Crash	Fixed object struck	Fixed object struck as determined by the police officer
Crash	Fixed object struck- code	Code for the fixed object struck as determined by the police officer
Crash	Hour of day	The hour of the day when the crash occurred (01 = midnight - 1:00 am, 02 = 1:00 - 2:00 am, etc., 00 = Unknown)
Crash	Inj crash	Indicates (Y or N) if this crash had any injuries
Crash	Investigating agency	The agency that investigated the crash (using the U.C.R. identifier)
Crash	Investigating agency- code	Code for the agency that investigated the crash (using the U.C.R. identifier)
Crash	Light condition	The light condition (artificial or natural) at the time of the crash
Crash	Light condition- code	Code for the light condition (artificial or natural) at the time of the crash
Crash	Link_id	Link identifier (county, low node, high node)
Crash	Loc type	Location type ('LINK' or 'NODE'), indicating if the location was specified along a link or at a node
Crash	Location type- code	Code for type of location at the crash site (straight road, curved road, intersection type, etc.)
Crash	Node_id	Node identifier (county, node number)
Crash	Non-int node crash	Indicates if the crash occurred at a non-intersection node (0 = intersection type accident, 1 = non-intersection type accident)
Crash	Num A inj	Number of persons receiving A injuries (in which a person had a bleeding wound, had a distorted member or had to be carried from the scene)
Crash	Num B inj	Number of persons receiving B injuries (in which a person had other visible injuries, bruises, abrasions, swelling, limping, etc.)
Crash	Num C inj	Number of persons receiving C injuries (in which a person had no visible injury, but had momentary unconsciousness or complaint of pain)
Crash	Num K inj	Number of persons receiving K injuries (in which a person is fatally injured as a result of the crash)
Crash	Num non-inj	Number of persons (any driver, passengers, pedestrians and others) involved in the crash and not injured
Crash	Offset (km)	Offset distance from low node along the link (kilometers) - crash located to the nearest 0.1 mile (0.16 km)
Crash	Offset (mi)	Offset distance from low node along the link (miles) - crash located to the nearest 0.1 mile
Crash	Road character	The vertical and horizontal alignment type for the roadway at the crash site
Crash	Road character- code	Code for the vertical and horizontal alignment type for the roadway at the crash site

Crash	Road surface condition	The condition of the road surface at the time of the crash
Crash	Road surface condition- code	Code for the condition of the road surface at the time of the crash
Crash	Segm node id	Segment/Node id (either the Segment_id or the Node_id, depending on type of location)
Crash	Segm offset (km)	Offset distance from the beginning of the segment (kilometers)
Crash	Segm offset (mi)	Offset distance from the beginning of the segment (miles)
Crash	Segment_id	Roadway segment identifier for the Primary segment associated with each crash (used to join to the Road Segment table)
Crash	Speed lim (kmph)	The speed limit at the scene of the crash (kilometers per hour)
Crash	Speed lim (mph)	The speed limit at the scene of the crash (miles per hour)
Crash	Traffic control device	The traffic control device at the scene of the crash
Crash	Traffic control device- code	Code for the traffic control device at the scene of the crash
Crash	Type of location	Type of location at the crash site (straight road, curved road, intersection type, etc.)
Crash	Weather condition	The weather condition at the time of the crash
Crash	Weather condition- code	Code for the weather condition at the time of the crash
Error Table	Date	The date/time the error was generated
Error Table	Description	A description of the error and/or the Oracle error code generated
Error Table	Error field	The name of the offending field
Error Table	Error field value	The value of the offending field (the 'Error field')
Error Table	Error type	Code for the load phase where the error occurred (S = INSERT trigger error, L = SQL*Loader Control file error, P = PL/SQL error)
Error Table	Key field	The name of the key field of the record causing the error
Error Table	Key field value	The key field value of the offending record
Error Table	Severity	Error severity (1 = Warning message, 2 = Generated by a LOAD_* procedure, 4 = Trapped by local function, 5 = Fatal error causing load to abort)
Error Table	Source procedure	The name of the procedure or control file where the error was captured
High Crash Location	A crashes	Total number of type A crashes at this High Crash Location
High Crash Location	B crashes	Total number of type B crashes at this High Crash Location
High Crash Location	C crashes	Total number of type C crashes at this High Crash Location
High Crash Location	Cnty	County number from standard geocodes (01, 03, 05, ..., 31)

High Crash Location	Crash rate	Crashes per hundred million vehicle miles (for link HCLs), or per hundred million entering vehicles (for node HCLs)
High Crash Location	CRF	Critical rate factor for this HCL
High Crash Location	Crit rate	Critical rate for this HCL
High Crash Location	HCL type	Type of High Crash Location (L=Link, N=Node) - 'Spot' HCLs are not included
High Crash Location	HCL year	High Crash Location computation year (e.g., '1997' means '1995 - 1997' for HCLs based on 3 years)
High Crash Location	HCL_id	HCL identifier, equal to the link_id (for HCLs on links) or the node_id (for HCLs at nodes)
High Crash Location	HIGH_NODE	
High Crash Location	Hmvm_Mev	Annual hundred million vehicle miles (for links) or annual million entering vehicles (for nodes) - updated annually by statewide rate
High Crash Location	K crashes	Total number of type K crashes at this High Crash Location
High Crash Location	Loc type	Location type ('LINK' or 'NODE'), indicating if the location was specified along a link or at a node
High Crash Location	LOW_NODE	
High Crash Location	Num A inj	Number of persons receiving A injuries (in which a person had a bleeding wound, had a distorted member or had to be carried from the scene)
High Crash Location	Num B inj	Number of persons receiving B injuries (in which a person had other visible injuries, bruises, abrasions, swelling, limping, etc.)
High Crash Location	Num C inj	Number of persons receiving C injuries (in which a person had no visible injury, but had momentary unconsciousness or complaint of pain)
High Crash Location	Num K inj	Number of persons receiving K injuries (in which a person is fatally injured as a result of the crash)
High Crash Location	Num years	Number of years of crash data included in the summary (1 or 3)
High Crash Location	PD crashes	Total number of property damage only crashes at this High Crash Location
High Crash Location	Road type	Road type used to determine statewide crash rate
High Crash Location	Total crashes	Total number of crashes at this High Crash Location
High Crash Location	Town code	Town identified by standard geographic code as defined by the state planning office
High Crash Location	Town name	Town name
High Crash Location	Urban/rural	Urban/rural code
High Crash Location	Year	Year of TIDE data
HCL Loc	HCL_id	High Crash Location unique identifier
HCL Loc	HCL_year	High Crash Location year, the last of three years of crash data (e.g., '1997' means '1995 - 1997')

HCL Loc	Loc type	Location type ('LINK' or 'NODE'), indicating if the location was specified along a link or at a node
HCL Loc	Segm node id	Segment/Node id (either the Segment_id or the Node_id, depending on type of location)
HCL Loc	Segment_id	Roadway segment identifier for the Primary segment associated with each HCL (used to join to the Road Segment table)
HCL Loc	Year	Year of TIDE data
HDS	BKMP	Begin kilometer point of the highway deficiency section along the route
HDS	BMP	Begin milepoint of the highway deficiency section along the route
HDS	EKMP	End kilometer point of the highway deficiency section along the route
HDS	EMP	End milepoint of the highway deficiency section along the route
HDS	Hds % pers inj	Percent personal injury for this highway deficiency section
HDS	Hds % pers inj score	Percent personal injury score for this highway deficiency section
HDS	Hds avg safety score	Average safety score for this highway deficiency section
HDS	Hds crash rate	Crash rate for this highway deficiency section
HDS	Hds crf	Critical rate factor for this highway deficiency section
HDS	Hds crf score	Critical rate factor score for this highway deficiency section
HDS	Hds crit rate	Critical rate for this highway deficiency section
HDS	Hds hmvm	Hundred million vehicle miles for this highway deficiency section
HDS	Hds safety ben score	Safety benefit score computed for this highway deficiency section
HDS	HDS_id	Highway Deficiency Section (HDS) identifier, based on the route code and begin milepoint
HDS	Prim route name	Unique business name of the primary route on which this Highway Deficiency Section falls
HDS	Prim rte code	Route code (made unique by appending the county code for inventory roads), for the primary route on this Highway Deficiency
HDS	Weighted SCR	Weighted statewide crash rate for this highway deficiency section
HDS	Year	Year of TIDE data
Link	Cnty	County number from standard geocodes (01, 03, 05, ..., 31)
Link	County name	The county name
Link	Effective date	Date on which this link became effective (NULL by default for all TIDE 1997 links)
Link	Expiration date	Date on which this link expired (NULL for links that are still active)

Link	High node	High node
Link	High node_id	High node_id (county, node number)
Link	Link len (km)	The length of the TINIS link (kilometers) to the nearest 0.01 mile (0.016 km)
Link	Link len (mi)	The length of the link (miles) to the nearest 0.01 mile
Link	Link_id	Link identifier (county, low node, high node)
Link	Low node	Low node number
Link	Low node_id	Low node_id (county, node number)
Link	Prim rte	Route code for the primary route on this link (made unique by appending the county or maintenance division code, as needed)
Link	Primary route name	Unique business name of the primary route on this link
Link	Town code	Town identified by standard geographic code as defined by the state planning office
Link Node	Link_id	Link identifier (county, low node, high node)
Link Node	Low/high	Indicates if this is the low node ('L') or high node ('H') for this link
Link Node	Node_id	Node identifier (county, node number)
Link Node	Year	Year of TIDE data
Lookup Tables	Lookup table name	The name of the Master Lookup table used to substitute text strings for codes (mainly for use by TIDE data managers)
Lookup Tables	Lookup table no	The 'Table Number' in the Master Lookup table used to substitute text strings for codes (mainly for use by TIDE data managers)
Master Lookup	Code	Code value
Master Lookup	Description	Text string description for the code
Master Lookup	Lookup table no	The lookup table number (each table is used during the TIDE data load to substitute text strings for codes, for one or more fields)
Master Lookup	PKEY	Primary key
Metadata - Columns	Data source	The source of the data for this attribute (mainly for use by TIDE data managers; not fully populated)
Metadata - Columns	Data source	The source of the data for this attribute (mainly for use by TIDE data managers; not fully populated)
Metadata - Columns	GQL attribute	The GQL attribute name (the 'business' name) for this Oracle column
Metadata - Columns	GQL attribute	The GQL attribute name (the 'business' name) for this Oracle column
Metadata - Columns	Long description	Long description for this GQL attribute (or Oracle column)
Metadata - Columns	Long description	Long description for this GQL attribute (or Oracle column)

Metadata - Columns	Lookup table no	The 'Table Number' in the Master Lookup table used to substitute text strings for codes (mainly for use by TIDE data managers)
Metadata - Columns	Lookup table no	The 'Table Number' in the Master Lookup table used to substitute text strings for codes (mainly for use by TIDE data managers)
Metadata - Columns	Oracle column	The Oracle column name (generally not seen by the GQL user; mainly for use by TIDE data managers)
Metadata - Columns	Oracle column	The Oracle column name (generally not seen by the GQL user; mainly for use by TIDE data managers)
Metadata - Columns	Oracle view	The Oracle view name (the view appears to the user like a table)
Metadata - Columns	Oracle view	The Oracle view name (the view appears to the user like a table)
Metadata - Columns	Short description	Short description for this GQL attribute (or Oracle column)
Metadata - Columns	Short description	Short description for this GQL attribute (or Oracle column)
Metadata - Columns	Start byte and width	Start byte and field width from the source data (mainly for use by TIDE data managers; not fully populated; start bytes from before the TINIS Y2K updates)
Metadata - Columns	Start byte and width	Start byte and field width from the source data (mainly for use by TIDE data managers; not fully populated; start bytes from before the TINIS Y2K updates)
Metadata - Columns	Update date	Date the definition of this column (valid values, datatype, etc.) was last updated
Metadata - Columns	Update date	Date the definition of this column (valid values, datatype, etc.) was last updated
Metadata - Tables	Data source	The principle data source for this table (mainly for use by TIDE data managers)
Metadata - Tables	GQL table	The GQL table (or 'object') name corresponding to the Oracle view
Metadata - Tables	Long description	Long description for this table
Metadata - Tables	Oracle table	The Oracle table name (pointed to by the Oracle view; mainly for use by TIDE data managers)
Metadata - Tables	Oracle view	The Oracle view name (the view appears to the user like a table)
Metadata - Tables	Short description	Short description of this table
Metadata - Tables	Update date	Date the structure or definition of this table was last updated
Node	Annual MEV	Annual Million Entering Vehicles, saved in the TINIS node record to avoid calculating each time requested (rounded to nearest 1000)
Node	Cnty	County number from standard geocodes
Node	Con node 1	Connected node 1 (connected to this node by a link)
Node	Con node 2	Connected node 2 (connected to this node by a link)
Node	Con node 3	Connected node 3 (connected to this node by a link)
Node	Con node 4	Connected node 4 (connected to this node by a link)

Node	Con node 5	Connected node 5 (connected to this node by a link)
Node	Con node 6	Connected node 6 (connected to this node by a link)
Node	County name	The county name
Node	Effective date	Date on which this node became effective (null by default for all TIDE 1997 nodes)
Node	Expiration date	Date on which this node expired (NULL for nodes that are still active)
Node	Geometric configuration	Physical configuration of the node
Node	Geometric configuration- code	Code for physical configuration of the node
Node	Last update	Last month-year in which the contents of the node record was updated
Node	Location description	The description of the node location
Node	Location road type	The roadway type for this node, loaded by the TINIS statewide rate program from the Statewide Crash Rates table
Node	Node location type	Node location type (coded with the Node Type)
Node	Node location type- code	Code for the node location type (coded with the Node Type)
Node	Node no	Node number
Node	Node status	Node status (A-add, C-change) used with TINIS field 061 (date of change) - added for mapping and HPMS
Node	Node type	Node type (intersection, bridge, railroad crossing, etc.)
Node	Node type- code	Code for the node type (intersection, bridge, railroad crossing, etc.)
Node	Node_id	Node identifier (county, node number)
Node	Num appr	This field is no longer maintained in TINIS, this it does not appear in the GQL model
Node	Num legs	Number of roadways entering or leaving the intersection (1-6)
Node	Prim rte	Route code for the primary route on this node (made unique by appending the county or maintenance division code, as needed)
Node	Primary route name	Unique business name of the primary route on this node
Node	Road type- code	Code for the roadway type for this node, loaded by the TINIS statewide rate program from the Statewide Crash Rates table
Node	Traffic signal	Indicates if the intersection is signalized (1=signalized, 0=not signalized)
Node	Update user	Initials of the user who performed the update
PMS 1984-96	IRI (in/mi)	International roughness index (inches/mile)
PMS 1984-96	IRI (mm/m)	International roughness index (millimeters/meter)

PMS 1984-96	PCR	Pavement condition rating (PCR) from Pavement Management section
PMS 1984-96	PJN	Project job number, identifying a Pavement Management System paving project section (on a PMS route)
PMS 1984-96	Rut gt half in	Percent rutting in both wheel paths greater than 1/2 inch
PMS 1984-96	Rut- left (in)	Left rutting depth (inches)
PMS 1984-96	Rut- left (mm)	Left rutting depth (millimeters)
PMS 1984-96	Rut- right (in)	Right rutting depth (inches)
PMS 1984-96	Rut- right (mm)	Right rutting depth (millimeters)
PMS 1984-96	Segment_id	Unique roadway segment identifier (required field for GIS mapping)
PMS 1984-96	Year	Year of TIDE data
Project	ADD_SECTNS	Indicates if there are additional sections of highway with the same PIN
Project	Base thick (in)	The base thickness relates to the total base thickness placed in this project (inches, to hundredths)
Project	Base thick (mm)	The base thickness relates to the total base thickness placed in this project (millimeters)
Project	Begin cnty	County code for the beginning point of the project
Project	CNTYLASTND	The county and node at the end of the project or the first county-node beyond the end of the project (zeros if project is at a node or within a link)
Project	DIR_INDICATOR	Direction indicator (0=at a node or link, 1=project extends in toward low node, 2=project extends toward high node)
Project	DIST LO NODE	Offset distance (miles) from low node
Project	End cnty	County code for the ending point of the project (or '00' for no ending county)
Project	FIRSTDIST	Distance from first node to start of project, zeros if project starts at a node (miles)
Project	Initials- upd	Initials of person who last reviewed and updated project history record
Project	LASTDIST	Distance from end of project to last node, zeros if project ends at a node (miles)
Project	LAST_NODE	Node at the end of the project or the first node beyond the end of the project (zeros if project is at a node or within a link)
Project	LINK_ID	Link identifier (county, low node, high node)
Project	Location 2	Describes the location of the project - part 2
Project	Location 3	Describes the location of the project - part 3
Project	Pav dsgn wid (ft)	Pavement width - from design plans (feet)
Project	Pav dsgn wid (mm)	Pavement width - from design plans (millimeters), to nearest 300 mm

Project	Pav thick (in)	The pavement thickness relates to the actual total thickness of pavement placed in the project (inches)
Project	Pav thick (mm)	The pavement thickness relates to the actual total thickness of pavement placed in the project (millimeters)
Project	PIN	Project identification number (id to track projects thru MDOT)
Project	PIN_section	Project identification number (id to track projects thru MDOT) with section number, uniquely identifying each project section
Project	Proj len (km)	The length of the project (kilometers) expressed to the nearest 0.01 mile (0.016 km)
Project	Proj len (mi)	The length of the project (miles) expressed to the nearest 0.01 mile
Project	Project location	Describes the location of the project using town names and/or distances, routes, etc
Project	Project scope	Scope of the project (uses scope codes from PROMIS)
Project	Project scope- code	Code for scope of the project (uses scope codes from PROMIS)
Project	Project status	Project status (active, pe closed/rw open, construction complete, etc.)
Project	Project status- code	Code for project status (active, pe closed/rw open, construction complete, etc.)
Project	Section len (km)	The length (kilometers) of this section of the project, expressed to the nearest 0.01 mile (0.016 km)
Project	Section len (mi)	The length (miles) of this section of the project, expressed to the nearest 0.01 mile
Project	Section no	Project section number (projects may be composed of multiple sections of highway with the same PIN)
Project	SEQ_NO	Sequence number, used in load procedure only
Project	Shld dsgn type	The shoulder type from design plans
Project	Shld dsgn wid (ft)	The shoulder width from design plans (feet)
Project	Shld dsgn wid (mm)	The shoulder width from design plans (millimeters), to nearest 300 mm
Project	Sub-base thick (in)	The sub-base thickness relates to the granular material thickness (inches)
Project	Sub-base thick (mm)	The sub-base thickness relates to the granular material thickness (millimeters)
Project	Update date	Date when project history record was reviewed and updated
Project	Year proj comp	The year the project was completed
Project Loc	Loc type	Location type ('LINK' or 'NODE'), indicating if the location was specified along a link or at a node
Project Loc	PIN	Project identification number (id to track projects thru MDOT)
Project Loc	PIN_section	Project identification number (id to track projects thru MDOT) with section number, uniquely identifying each project section
Project Loc	Section no	Project section number (projects may be composed of multiple sections of highway with the same PIN)

Project Loc	Segm node id	Segment/Node id (either the Segment_id or the Node_id, depending on type of location)
Project Loc	Segment_id	Roadway segment identifier for the Primary segment associated with each portion (link or node) of each project (used to join to the Road Segment table)
Project Loc	Year	Year of TIDE data (uses 1997 if Year proj complete < 1997, and current year for Year proj complete = 0)
Project Loc	Year project completed	The year the project was completed (for joining to the Segment table)
RR Crossing	Cnty	County number from standard geocodes (01, 03, 05, ..., 31)
RR Crossing	County name	The county name (Androscoggin, Aroostook, Cumberland, ..., York)
RR Crossing	Crashes (5 yr)	Number of reported crashes in past 5 years - for crash prediction formula
RR Crossing	Cross angle	The smallest crossing angle between the track and the road
RR Crossing	Cross angle- code	Code for the smallest crossing angle between the track and the road
RR Crossing	Cross type- phys	The type of crossing identified by physical characteristics (at grade, rr under, rr over, other)
RR Crossing	Cross type- phys- code	Code for the type of crossing identified by physical characteristics (at grade, rr under, rr over, other)
RR Crossing	Cross type- usage	The type of crossing identified by usage (ped, priv veh crossing, public veh crossing)
RR Crossing	Cross type- usage- code	Code for the type of crossing identified by usage (ped, priv veh crossing, public veh crossing)
RR Crossing	Crossing surface	The type of surface construction at the crossing
RR Crossing	Crossing surface- code	Code for the type of surface construction at the crossing
RR Crossing	Current status	Indicates the current status of the railroad crossing
RR Crossing	Current status- code	Code indicating the current status of the railroad crossing
RR Crossing	Exempt date	Exempt date - date exempt sign installed
RR Crossing	Exempt status	Indicates if the railroad grade crossing has exempt status
RR Crossing	Improv 1 - yr 1	The first type of improvement made to the crossing in year 1 (matches the 'Improv yr 1' column)
RR Crossing	Improv 1 - yr 1- code	Code for first type of improvement made to the crossing in year 1 (matches the 'Improv yr 1' column)
RR Crossing	Improv 1 - yr 2	The first type of improvement made to the crossing in year 2 (matches the 'Improv yr 2' column)
RR Crossing	Improv 1 - yr 2- code	Code for first type of improvement made to the crossing in year 2 (matches the 'Improv yr 2' column)
RR Crossing	Improv 1 - yr 3	The first type of improvement made to the crossing in year 3 (matches the 'Improv yr 3' column)
RR Crossing	Improv 1 - yr 3- code	Code for first type of improvement made to the crossing in year 3 (matches the 'Improv yr 3' column)
RR Crossing	Improv 2 - yr 1	The second type of improvement made to the crossing in year 1 (matches the 'Improv yr 1' column)

RR Crossing	Improv 2 - yr 1- code	Code for second type of improvement made to the crossing in year 1 (matches the 'Improv yr 1' column)
RR Crossing	Improv 2 - yr 2	The second type of improvement made to the crossing in year 2 (matches the 'Improv yr 2' column)
RR Crossing	Improv 2 - yr 2- code	Code for second type of improvement made to the crossing in year 2 (matches the 'Improv yr 2' column)
RR Crossing	Improv 2 - yr 3	The second type of improvement made to the crossing in year 3 (matches the 'Improv yr 3' column)
RR Crossing	Improv 2 - yr 3- code	Code for second type of improvement made to the crossing in year 3 (matches the 'Improv yr 3' column)
RR Crossing	Improv yr 1	The first year for which improvements were recorded (matches 'Improv 1,2 - yr 1' columns)
RR Crossing	Improv yr 2	The first year for which improvements were recorded (matches 'Improv 1,2 - yr 2' columns)
RR Crossing	Improv yr 3	The first year for which improvements were recorded (matches 'Improv 1,2 - yr 3' columns)
RR Crossing	Initials- update	Initials to indicate person responsible for last update
RR Crossing	Link_id	Link identifier (county, low node, high node)
RR Crossing	Loc type	Location type ('LINK' or 'NODE'), indicating if the location was specified along a link or at a node
RR Crossing	Max timetbl spd (kmph)	The maximum timetable speed of the train at the crossing (kilometers per hour)
RR Crossing	Max timetbl spd (mph)	The maximum timetable speed of the train at the crossing (miles per hour)
RR Crossing	Max typ spd (kmph)	The maximum typical speed of the train at the crossing (kilometers per hour)
RR Crossing	Max typ spd (mph)	The maximum typical speed of the train at the crossing (miles per hour)
RR Crossing	Node_id	Node identifier (county, node) where the RR crossing is located
RR Crossing	Num tracks	The number of tracks at the crossing
RR Crossing	Num trains	The number of trains using the crossing each day
RR Crossing	Num trains day	The number of trains using the crossing during daylight hours
RR Crossing	Offset (km)	Offset distance (kilometers) from low node along the link
RR Crossing	Offset (mi)	Offset distance (miles) from low node along the link
RR Crossing	Protection type	The type of protection at the crossing
RR Crossing	Protection type- code	Code for the type of protection at the crossing
RR Crossing	Railroad company	A unique number identifying railroad companies and lines
RR Crossing	Railroad company- code	Code identifying railroad companies and lines
RR Crossing	RR cross letter	Railroad crossing letter

RR Crossing	RR crossing name	Railroad crossing name
RR Crossing	RR milepost	The milepost or point on the rail system where the crossing is located
RR Crossing	RRcross_no	Railroad crossing number (required for GIS mapping)
RR Crossing	Segm node id	Segment/Node id (either the Segment_id or the Node_id, depending on type of location)
RR Crossing	Segm offset (km)	Offset distance from the beginning of the segment (kilometers)
RR Crossing	Segm offset (mi)	Offset distance from the beginning of the segment (miles)
RR Crossing	Segment_id	Roadway segment identifier for the Primary segment associated with each railroad crossing (used to join to the Road Segment table)
RR Crossing	Sight char	Sight characteristics rating from the railroad crossing inventory form
RR Crossing	Sight dist	Sight distance rating from the railroad crossing inventory form
RR Crossing	Surf cond	Surface condition rating from the railroad crossing inventory form
RR Crossing	Type of area	The type of area in which the crossing is located (developed/undeveloped)
RR Crossing	Type of area- code	Code for the type of area in which the crossing is located (developed/undeveloped)
RR Crossing	Update mo-yr	Last month-year in which the contents of the railroad record was updated
RR Crossing	Year	Year of TIDE data
RR Pointer	Link_id	Link identifier (county, low node, high node) of the link associated with the RR crossing node
RR Pointer	RRcross_no	Railroad crossing number
RR Pointer	Year	Year of TIDE data
Route	Cnty	County number, for concatenating with Rte Code only
Route	Route name	Unique business name of the route
Route	Rte code	Route code (made unique by appending the county code for inventory roads)
Route	Rte no	Route number (numeric portion only, not including any character suffix)
Route	Rte suffix	Route suffix (A=alternate route, S=south bound, W=west bound, etc.)
Route	Rte sys code	Route system code (1=Interstate, 2=US Route, 3=State Route, 4=Maint Route, 5=Inventory Road, 6=PMS Route)
Route	Rte system	Route system (Interstate, US Route, State Route, Maint Route, Inventory Road, PMS Route)
Route	Rte type	Route type (N=Numbered route, M=Maintenance route, I=Inventory road, P=PMS route)
Route	Sort order	A natural sorting order for routes, based on the route system code, county, division, route number and route suffix

Route County	Cnty	County number from standard geocodes (01, 03, 05, ..., 31)
Route County	County name	The county name
Route County	Primary	Indicates if this is the primary route on this link ('Y' or 'N')
Route County	Route name	Unique business name of the route
Route County	Rte code	Route code (made unique by appending the county code for inventory roads)
Route County	Rte system	Route system (Interstate, US Route, State Route, Maint Route, Inventory Road, PMS Route)
Route County	Rte type	Route type (N=Numbered route, M=Maintenance route, I=Inventory road, P=PMS route)
Route County	Sort order	A natural sorting order for routes, based on the route system code, county, division, route number and route suffix
Route Link	Begin node_id	Node_id (county, node) for the node at the beginning of the link along this route
Route Link	BKMP	Begin kilometer point for the link along the route
Route Link	BMP	Begin milepoint for the link along the route
Route Link	EKMP	End kilometer point for the link along the route
Route Link	EMP	End milepoint for the link along the route
Route Link	End node_id	Node_id (county, node) for the node at the end of the link along this route
Route Link	Link direction	The link direction relative to the route: 'F' = forward (same direction), 'B' = backward (opposite direction)
Route Link	Link_id	Link identifier (county, low node, high node)
Route Link	Primary	Indicates if this is the primary route on this link ('Y' or 'N')
Route Link	Route name	Unique business name of the route
Route Link	Rte code	Route code (made unique by appending the county or maintenance division code, as needed)
Route Link	Rte type	Route type (N=Numbered route, M=Maintenance route, I=Inventory road, P=PMS route)
Route Link	Year	Year of TIDE data
Rte MaintDiv	Maint div	MDOT maintenance division in which the link/segment is located (by code, 1-7)
Rte MaintDiv	Maint division	MDOT maintenance division in which link/segment is located (by name)
Rte MaintDiv	Primary	Indicates if this is the primary route on this link ('Y' or 'N')
Rte MaintDiv	Route name	Unique business name of the route
Rte MaintDiv	Rte code	Route code (made unique by appending the county code for inventory roads)

Rte MaintDiv	Rte system	Route system (Interstate, US Route, State Route, Maint Route, Inventory Road, PMS Route)
Rte MaintDiv	Rte type	Route type (N=Numbered route, M=Maintenance route, I=Inventory road, P=PMS route)
Rte MaintDiv	Sort order	A natural sorting order for routes, based on the route system code, county, division, route number and route suffix
Route Node	KMP	Kilometer point for the node along the route
Route Node	MP	Milepoint for the node along the route
Route Node	MP - node - description	Concatenation of milepoint, node_id and location description (used for subqueries that select nodes along routes)
Route Node	Node_id	Node identifier (county, node number)
Route Node	Primary	Indicates if this is the primary route on this node ('Y' or 'N')
Route Node	Route name	Unique business name of the route
Route Node	Rte code	Route code (made unique by appending the county or maintenance division code, as needed)
Route Node	Rte type	Route type (N=Numbered route, M=Maintenance route, I=Inventory road, P=PMS route)
Route Segment	Begin node_id	Node_id (county, node) for the node at the beginning of the segment along this route
Route Segment	BKMP	Begin kilometer point of the segment along the route
Route Segment	BMP	Begin milepoint of the segment along the route
Route Segment	Dir	Direction of the route milepoints along the link (F=Forward, B=Back)
Route Segment	EKMP	End kilometer point of the segment along the route
Route Segment	EMP	End milepoint of the segment along the route
Route Segment	End node_id	Node_id (county, node) for the node at the ending of the segment along this route
Route Segment	Primary	Indicates if this is the primary route on this segment ('Y' or 'N')
Route Segment	Route name	Unique business name of the route
Route Segment	Rte code	Route code (made unique by appending the county or maintenance division code, as needed)
Route Segment	Rte type	Route type (N=Numbered route, M=Maintenance route, I=Inventory road, P=PMS route)
Route Segment	Segment_id	Unique roadway segment identifier (required field for GIS mapping)
Rte Segment Node	BKMP	Begin kilometer point of the segment, or kilometer point of the node, along the route
Rte Segment Node	BMP	Begin milepoint of the segment, or milepoint of the node, along the route
Rte Segment Node	Dir	Direction of the route milepoints along the link (F=Forward, B=Back)

Rte Segment Node	EKMP	End kilometer point of the segment along the route
Rte Segment Node	EMP	End milepoint of the segment along the route
Rte Segment Node	Primary	Indicates if this is the primary route on this segment or node ('Y' or 'N')
Rte Segment Node	Route name	Unique business name of the route
Rte Segment Node	Rte code	Route code (made unique by appending the county or maintenance division code, as needed)
Rte Segment Node	Rte type	Route type (N=Numbered route, M=Maintenance route, I=Inventory road, P=PMS route)
Rte Segment Node	Segm node id	Segment/Node id (either the Segment_id or the Node_id, depending on type of location)
Rte Seg PMS	PMS BKMP	Begin kilometer point of the segment along the PMS route
Rte Seg PMS	PMS BMP	Begin milepoint of the segment along the PMS route
Rte Seg PMS	PMS EKMP	End kilometer point of the segment along the PMS route
Rte Seg PMS	PMS EMP	End milepoint of the segment along the PMS route
Rte Seg PMS	PMS route name	Unique business name of the PMS route
Rte Seg PMS	PMS rte code	Unique route code for the PMS route
Rte Seg PMS	SEGMENT_ID	Unique roadway segment identifier
Route Town	Cnty	County number from standard geocodes (01, 03, 05, ..., 31)
Route Town	County name	The county name
Route Town	Primary	Indicates if this is the primary route on this link ('Y' or 'N')
Route Town	Route name	Unique business name of the route
Route Town	Rte code	Route code (made unique by appending the county code for inventory roads)
Route Town	Rte system	Route system (Interstate, US Route, State Route, Maint Route, Inventory Road, PMS Route)
Route Town	Rte type	Route type (N=Numbered route, M=Maintenance route, I=Inventory road, P=PMS route)
Route Town	Sort order	A natural sorting order for routes, based on the route system code, county, division, route number and route suffix
Route Town	Town code	Town identified by standard geographic code as defined by the state planning office
Route Town	Town name	Town name
State Crash Rate	Link node rate	Link and node crash rate for this road type
State Crash Rate	Link rate	Link crash rate for this road type

State Crash Rate	Node rate	Node crash rate for this road type
State Crash Rate	Rd type	Roadway type (codes 01 - 56)
State Crash Rate	Roadway type	Code for roadway type description (01 - 56)
State Crash Rate	Spot rate	
State Crash Rate	Year	Year of TIDE data
Road Segment	AADT	Annual average daily traffic in year counted or estimated
Road Segment	AADT year	Year in which the AADT count was done
Road Segment	ABN	Pavement Management: A=Road geometrically and structurally sufficient for current traffic loads, B=Not sufficient, part of reconstruction backlog, 0=Not rated
Road Segment	Access ctrl	Type of access control (None, Partial, Full)
Road Segment	Access ctrl- code	Code for type of access control
Road Segment	Align defic	Alignment deficiency (none, vertical only, horizontal only, horizontal and vertical)
Road Segment	Align defic- code	Alignment deficiency code (1=none, 2=vertical only, 3=horizontal only, 4=horizontal and vertical)
Road Segment	Align score	Alignment benefit score
Road Segment	Aran file	ARAN data filename from Pavement Management section (replaced on a 2-year cycle)
Road Segment	Aran tape	ARAN video tape number from Pavement Management section (replaced on a 2-year cycle)
Road Segment	Avg median wid (ft)	This item indicates the average median width for this TINIS link (feet) - HPMS requirement
Road Segment	Avg median wid (m)	The average median width for this TINIS link (meters) - an HPMS requirement
Road Segment	Begin offset (km)	Begin offset along the link (kilometers)
Road Segment	Begin offset (mi)	Begin offset along the link (miles)
Road Segment	Bicycle LOS lt	Bicycle level of service, left side of the link (1-excellent 6-poor)
Road Segment	Bicycle LOS rt	Bicycle level of service, right side of the link (1-excellent 6-poor)
Road Segment	Capacity (hourly)	Estimated highway capacity (vehicles/hour), based on federal functional class, number of lanes, urban/rural and access control
Road Segment	Cnty	County number from standard geocodes (01, 03, 05, ..., 31)
Road Segment	County name	The county name
Road Segment	Crash red factor	Crash reduction factor, computed based on the horizontal and alignment deficiencies (used for Highway Needs and Adequacy reports)

Road Segment	Ctr turn lanes- num	Number of center turning lanes
Road Segment	Ctr turn lanes- wid (ft)	Width of center turning lanes (feet)
Road Segment	Ctr turn lanes- wid (mm)	Width of center turning lanes (millimeters), to nearest 300 mm
Road Segment	Defense hwy	Roadway segments identified as being a part of the defense highway system
Road Segment	Defic sum	Deficiency summary: P = pavement deficiency, S = Shoulder deficiency, H = Horizontal deficiency, V = Vertical deficiency
Road Segment	Desig bike rte	Designated bike route
Road Segment	Desig truck rte	Roadway segments designated as truck routes by the national truck network program 1982
Road Segment	End offset (km)	End offset along the link (kilometers)
Road Segment	End offset (mi)	End offset along the link (miles)
Road Segment	Environ score	Environmental impact score
Road Segment	Environ score- code	Environmental impact score (code)
Road Segment	Fact AADT	Factored annual average daily traffic, valid values 0 - 40,000
Road Segment	Fact AADT year	Year to which the AADT is factored
Road Segment	Fact AADT/c	Factored annual average daily traffic divided by the estimated capacity (see the 'Capacity' field)
Road Segment	Fed aid no	Federal aid no
Road Segment	Fed FC	The 1990 federal functional class code
Road Segment	Fed functional class	The 1990 federal functional class
Road Segment	Fed urb-rur	Federal urban/rural designation
Road Segment	Foreman summer	The MDOT maintenance division foreman -crew- responsible in the summer
Road Segment	Foreman winter	The MDOT maintenance division foreman -crew- responsible in the winter
Road Segment	Hds safety score	Safety benefit score computed for the Highway Deficiency Section on which the segment falls
Road Segment	HDS_id	Highway Deficiency Section (HDS) identifier, based on the route code and begin milepoint
Road Segment	HMVM	Hundred million vehicle miles for the segment (= segment length in miles * factored AADT * 365 days / 100,000,000)
Road Segment	HNA cost	Highway Needs and Adequacy estimated cost of improvement, computed for each roadway segment
Road Segment	HPMS	Part of HPMS section, 0 is not HPMS, 1,2,8,9 are other valid values
Road Segment	HPMS AADT	Indication (by '1') that this is an HPMS segment where AADT is doubled

Road Segment	Inv year	Year of inventory (by ARAN van) for PCR, IRI, and rutting attributes
Road Segment	IRI (in/mi)	International roughness index (inches/mile)
Road Segment	IRI (mm/m)	International roughness index (millimeters/meter)
Road Segment	Juris abbr	Jurisdiction abbreviation, for the entity responsible for the roadway (STHW, STAI, TOLL, TNWY, TNWS, TNWW, RESV, SPKY, PRIV)
Road Segment	Juris code	Jurisdiction code (the TINIS code), for the entity responsible for the roadway
Road Segment	Jurisdiction	Jurisdiction, the entity responsible for the roadway
Road Segment	Link_id	Link identifier (county, low node, high node)
Road Segment	LOS- pk hr	The estimated peak hour level of service (A - F), based on speed limit, aadt, capacity, access control and urban/rural
Road Segment	Lt turn lanes- num	Number of left turning lanes, 1-9 or l,r,b (for undivided two lanes with truck route on right, left, both)
Road Segment	Lt turn lanes- side	Left turning lanes - side of road (L=Left, R=Right, B=Both)
Road Segment	Lt turn lanes- wid (ft)	Width of left turning lanes (feet)
Road Segment	Lt turn lanes- wid (mm)	Width of left turning lanes (millimeters), to nearest 300 mm
Road Segment	Maint div	MDOT maintenance division in which the link/segment is located (by code, 1-7)
Road Segment	Maint division	MDOT maintenance division in which link/segment is located (by name)
Road Segment	Median barrier	Median barrier present
Road Segment	Median barrier- code	Code indicating if a median barrier is present
Road Segment	MPO	Metropolitan Planning Organization
Road Segment	National hwy sys	Indicates the National Highway System status (NHS-interstate, NHS-other, Fed aid non-NHS, Non-fed aid, NHS-connector)
Road Segment	National hwy sys- code	Indicates the National Highway System status (NHS-interstate, NHS-other, Fed aid non-NHS, Non-fed aid, NHS-connector)
Road Segment	Num lanes	Total number of lanes, computed from the numbers of through lanes, turning lanes and truck lanes
Road Segment	Num lanes code	Number of lanes code, indicates number of lanes, divided status and truck lane status
Road Segment	Offic mileage	Indicates 'Y' or 'N' if this roadway segment is counted as official miles (excludes south and west bound lanes, ramps, etc.)
Road Segment	One way	Indicates if there is one way traffic, and its direction along the link
Road Segment	One way- code	Code indicating if there is one way traffic, and its direction along the link
Road Segment	Pav defic	Pavement/shoulder width deficiency (none, shoulder only, pavement only, pavement and shoulder)
Road Segment	Pav defic- code	Pavement/shoulder width deficiency (1=none, 2=shoulder only, 3=pavement only, 4=pavement and shoulder)

Road Segment	Pav score	Pavement benefit score (computed based on the PCR)
Road Segment	Pav width (ft)	Width of pavement excluding shoulder (feet)
Road Segment	Pav width (mm)	Width of pavement excluding shoulder (millimeters), to nearest 300 mm
Road Segment	PCR	Pavement condition rating (PCR) from Pavement Management section
Road Segment	PIN	Project identification number, for the project associated with the most recent 'construction year' or 'resurfacing year'
Road Segment	PJN	Project job number, identifying a Pavement Management System paving project section (on a PMS route)
Road Segment	PMS Code 1	PMS Code 1 (for special purposes)
Road Segment	PMS Code 1- code	PMS Code 1 (for special purposes)- code
Road Segment	PMS Code 2	PMS Code 2 (for special purposes)
Road Segment	PMS Code 2- code	PMS Code 2 (for special purposes)- code
Road Segment	PMS Code 3	PMS Code 3 (for special purposes)
Road Segment	PMS Code 3- code	PMS Code 3 (for special purposes)- code
Road Segment	Prim BKMP	Begin kilometer point of the primary route on the segment
Road Segment	Prim BMP	Begin milepoint of the primary route on the segment
Road Segment	Prim EKMP	End kilometer point of the primary route on the segment
Road Segment	Prim EMP	End milepoint of the primary route on the segment
Road Segment	Prim rte	Route code for the primary route on this segment (made unique by appending the county or maintenance division code, as needed)
Road Segment	Prim rte type	Route type (Numbered, Inventory road, Maintenance, PMS) for the primary route on this segment
Road Segment	Primary route name	Unique business name of the primary route on this segment
Road Segment	Priority score	Total Cost Effectiveness priority score for this segment, computed from the Pavement, Safety and Alignment Benefit Scores
Road Segment	Projected PCR	Calculated future Pavement Condition Rating if not treated
Road Segment	Ramp	Indicates if this is a ramp (used to carry traffic from one roadway to another) or a cut (1=Ramp, 2=Cut)
Road Segment	Reservation	Type of public land thru which the road passes
Road Segment	Reservation- code	Code for type of public land thru which the road passes
Road Segment	ROW score	Right-of-way impact score (minimal, average, or high acquisition and utility relocation costs)
Road Segment	ROW score- code	Right-of-way impact score (1=minimal, 2=average, 3=high acquisition and utility relocation costs)

Road Segment	Rt turn lanes- num	Number of right-turning lanes
Road Segment	Rt turn lanes- side	Right turning lanes - side of road (L=left, R=right, B=both)
Road Segment	Rt turn lanes- wid (ft)	Width of right turning lane (feet)
Road Segment	Rt turn lanes- wid (mm)	Width of right turning lane (feet)
Road Segment	Rut gt half in	Percent rutting in both wheel paths greater than 1/2 inch
Road Segment	Rut- left (in)	Left rutting depth (inches)
Road Segment	Rut- left (mm)	Left rutting depth (millimeters)
Road Segment	Rut- right (in)	Right rutting depth (inches)
Road Segment	Rut- right (mm)	Right rutting depth (millimeters)
Road Segment	Scenic rte	Identification of the routes designated as scenic
Road Segment	Scope of work	Scope of work to improve deficiencies (Open ditch section low, medium, high cost Curbed section low, medium, high cost)
Road Segment	Scope of work- code	Scope of work to improve deficiencies (1,2,3=Open ditch low, medium, high cost; 4,5,6=Curbed low, medium, high cost)
Road Segment	Seg len (km)	Segment length (kilometers), equal to End offset (km) - Begin offset (km)
Road Segment	Seg len (mi)	Segment length (miles), equal to End offset (mi) - Begin offset (mi)
Road Segment	Segment_id	Unique roadway segment identifier (required field for GIS mapping)
Road Segment	Shldr type- left	Left shoulder type when travelling in the link direction (no shoulder, gravel, paved, curb present, etc.)
Road Segment	Shldr type- left- code	Code for left shoulder type when travelling in the link direction (no shoulder, gravel, paved, curb present, etc.)
Road Segment	Shldr type- right	Right shoulder type when travelling in the link direction (no shoulder, gravel, paved, curb present, etc.)
Road Segment	Shldr type- right- code	Code for right shoulder type when travelling in the link direction (no shoulder, gravel, paved, curb present, etc.)
Road Segment	Shldr wid left (ft)	Width of left shoulder (feet) when travelling in the direction of the link
Road Segment	Shldr wid left (mm)	Width of left shoulder (millimeters), to nearest 300 mm, when travelling in the direction of the link
Road Segment	Shldr wid right (ft)	Width of right shoulder (feet) when travelling in the direction of the link
Road Segment	Shldr wid right (mm)	Width of right shoulder (millimeters), to nearest 300 mm, when travelling in the direction of the link
Road Segment	Speed lim (kmph)	Speed limit along segment (kilometers per hour). the metric equivalent of either posted or default (see the 'Speed lim src' column)
Road Segment	Speed lim (mph)	Speed limit along segment (miles per hour). either posted or default (see the 'Speed lim src' column)
Road Segment	Speed lim src	The source of the speed limit, if 'Posted' or 'Default' (based on federal functional class, urban/rural and access control)

Road Segment	Speed zone id	Unique speed zone identifier, comprised of the starting link_id plus a sequence number
Road Segment	Speed- avg (mph)	Estimated average speed on the segment (miles per hour), based on speed limit (posted or default), aadt, capacity, access control and urban/rural
Road Segment	Speed- pk hr (mph)	Estimated peak hour speed along the segment (miles per hour), based on speed limit (posted or default), aadt, capacity, access control and urban/rural
Road Segment	St hwy desig no	State highway designation number - an MDOT identification number
Road Segment	State aid no	State aid number (first digit indicates spur)
Road Segment	State FC	State functional class code
Road Segment	State functional class	State functional class
Road Segment	State urb-rur	State urban/rural designation
Road Segment	Street name	The commonly accepted name of the street or road
Road Segment	Surface type	The type of roadway surface
Road Segment	Surface type- code	Code for the type of roadway surface
Road Segment	Thru lanes- num	Number of thru lanes
Road Segment	Thru lanes- rd type	Type of roadway (1=undivided, 2=divided, 3=pairs)
Road Segment	Thru lanes- to high node	Number of thru lanes with a direction of travel towards high node (going)
Road Segment	Thru lanes- to low node	Number of thru lanes with a direction of travel towards low node (coming)
Road Segment	Thru lanes- wid (ft)	Width of thru lanes (feet)
Road Segment	Thru lanes- wid (mm)	Width of thru lanes (millimeters), to nearest 300 mm
Road Segment	Town code	Town identified by standard geographic code as defined by the state planning office
Road Segment	Town name	Town name
Road Segment	Treatment type	Treatment type (from spreadsheet data)
Road Segment	Truck lanes- side	Truck climbing lanes side of road (Left, Right, Both or None)
Road Segment	Truck lanes- wid (ft)	Width of truck climbing lanes (feet)
Road Segment	Truck lanes- wid (mm)	Width of truck climbing lanes (millimeters), to nearest 300 mm
Road Segment	Twnwy seasonal	Townway seasonal (Not townway seasonal, Summer only, Winter only) - used only when Jurisdiction = Townway
Road Segment	Type AADT	Type of AADT (estimated, actual, based on actual nearby)

Road Segment	Type AADT- code	Code for type of AADT (estimated, actual, based on actual nearby)
Road Segment	Urban group	Urban group classification
Road Segment	Urban group- code	Code for urban group classification
Road Segment	Urban-rural	State and federal classifications of rural and urban areas
Road Segment	Urban-rural- code	Code for state and federal classifications of rural and urban areas
Road Segment	Year	Year of TIDE data
Road Segment	Year constr	Year the roadway was reconstructed
Road Segment	Year resurf	Year the roadway was resurfaced
Route Left/Right	Bicycle LOS lt	Bicycle level of service, left side of the route relative to the route milepoints (1-excellent 6-poor)
Route Left/Right	Bicycle LOS rt	Bicycle level of service, right side of the route relative to the route milepoints (1-excellent 6-poor)
Route Left/Right	Segm direction	The segment direction relative to the route: 'F' = forward (same direction), 'B' = backward (opposite direction)
Route Left/Right	Segment_id	Unique roadway segment identifier (required field for GIS mapping)
Route Left/Right	Shldr type- left	Shoulder type on the left side of the route, relative to the route milepoints (no shoulder, gravel, paved, curb present, etc.)
Route Left/Right	Shldr type- right	Shoulder type on the right side of the route, relative to the route milepoints (no shoulder, gravel, paved, curb present, etc.)
Route Left/Right	Shldr wid left (ft)	Shoulder width (feet) on the left side of the route, relative to the route milepoints
Route Left/Right	Shldr wid left (mm)	Shoulder width (millimeters, to nearest 300 mm) on the left side of the route, relative to the route milepoints
Route Left/Right	Shldr wid right (ft)	Shoulder width (feet) on the right side of the route, relative to the route milepoints
Route Left/Right	Shldr wid right (mm)	Shoulder width (millimeters, to nearest 300 mm) on the right side of the route, relative to the route milepoints
Route Left/Right	Thru lanes- back	Number of through lanes in the direction opposite the route milepoints
Route Left/Right	Thru lanes- forward	Number of through lanes in the direction of the route milepoints
Route Left/Right	Year	Year of TIDE data
Seg Geog	Cnty	County number from standard geocodes (01, 03, 05, ..., 31)
Seg Geog	County name	The county name for the primary segment associated with this feature
Seg Geog	Link_id	Link identifier (county, low node, high node) for the primary segment associated with this feature
Seg Geog	Maint div	MDOT maintenance division (by code, 1-7) for the primary segment associated with this feature
Seg Geog	Maint division	MDOT maintenance division (by name) for the primary segment associated with this feature

Seg Geog	MPO	Metropolitan Planning Organization for the primary segment associated with this feature
Seg Geog	RTAC	Regional Transportation Advisory Committee code for the primary segment associated with this feature
Seg Geog	Segment_id	Unique roadway segment identifier (required field for GIS mapping)
Seg Geog	Town code	Town identified by standard geographic code as defined by the state planning office, for the primary segment associated with this feature
Seg Geog	Town name	Town name, for the primary segment associated with this feature
Seg Geog	Year	Year of TIDE data
Speed Zone	CNTYLASTNODE	
Speed Zone	Comment line 1	Speed zone comment, line 1
Speed Zone	Comment line 2	Speed zone comment, line 2
Speed Zone	Date reviewed	Date the speed zone was reviewed for modification
Speed Zone	DIR_INDICATOR	
Speed Zone	Effective date	Date the speed zone was established
Speed Zone	END_DIST	
Speed Zone	END_DIST_KM	
Speed Zone	Initials	Initials of the last person coding changes to the speed zone record
Speed Zone	LINK_ID	Link identifier (county, low node, high node)
Speed Zone	Reviewed by	Initials of the last person who reviewed the speed zone coding changes to the speed zone record
Speed Zone	Speed lim (mph)	Speed limit (miles per hour)
Speed Zone	Speed limit (kmph)	Speed limit (kilometers per hour)
Speed Zone	Speed zone id	Unique speed zone identifier, comprised of the starting link_id plus a sequence number
Speed Zone	START_DIST	
Speed Zone	START_DIST_KM	
Speed Zone	Update date	Date that the speed zone was last updated
Speed Zone	Year	Year of TIDE data
Speed Zone	Zone len (km)	Speed zone length (kilometers)
Speed Zone	Zone len (mi)	Speed zone length (miles)

Town	AQPA	
Town	Area (sq mi)	The area of the town (square miles)
Town	Area type	The geographic area type (T = town, U = unincorporated town)
Town	Cnty	County number from standard geocodes
Town	County name	The county name
Town	Cur population	Current town population
Town	FIPS code	Town Federal Information Processing Standard (FIPS) code
Town	Population 1990	The town population based on the 1990 census
Town	RTAC	Regional Transportation Advisory Committee code
Town	Town code	Town identified by standard geographic code as defined by the state planning office
Town	Town name	Town name
Town	Year	Year of TIDE data
Town	Year cur pop	Census year on which the Current Population count is based
Town Officials	geocode	???? Town Code + 1 char
Town Officials	map	????
Town Officials	umap	????
Town Officials	ubook	????
Town Officials	rtac	Regional Transportation Advisory Committee code
Town Officials	zipcode	ZIP Cdoe
Town Officials	rpc	????
Town Officials	senate_dis	????
Town Officials	house_dist	????
Town Officials	mpo	Metropolitan Planning Organization for the primary segment associated with this feature
Town Officials	population	Town population
Town Officials	date_entered_date9	????
Town Officials	mini_type	Municipality type

Town Officials	to_yn_logic9	????
Town Officials	area_sq_mi	????
Town Officials	traffic_signals_yn_logic9	????
Town Officials	st_address_2	Street Address 2
Town Officials	phone_office	Office Phone Number
Town Officials	phone_garage	Garage Phone Number
Town Officials	fax	Fax Number
Town Officials	st_address	Street Address 1
Town Officials	email	Email Address
Town Officials	city	Name of City
Town Officials	state	Name of State
Town Officials	to_hours	????
Town Officials	fed_hs_dst	????
Town Officials	fax_garage	Garage Fax Number
Town Officials	mun_name	Name of Municipality
Town Officials	county_code	County code: 2 digit
Town Officials	mpo_status	Status of Metropolitan Planning Organization
Town Officials	short_geo	Short Geocode, same with town code, 5 digits
Town Officials	election_month	????
Town Officials	div	????
People Officials	first name	First Name
People Officials	last name	Last Name
People Officials	title	
People Officials	street address	Street Address
People Officials	city	
People Officials	state	

People	zip	
Officials		
People	phone	
Officials		
People	fhwa category	
Officials		
People	survey	
Officials		
People	county name	The county name
Officials		
People	chec_	????
Officials		
People	maint	????
Officials		
People	indian	????
Officials		
People	wz	????
Officials		
People	fax__	
Officials		
People	mi	????
Officials		
People	job code	
Officials		
People	cust_num	
Officials		
People	email	
Officials		
People	date_entered_date9	
Officials		
People	phone_home	
Officials		
People	rtac	Regional Transportation Advisory Committee code
Officials		
People	geocode	???? Town Code + 1 char
Officials		
People	mrms	
Officials		
People	short_geo	Short Geocode, same with town code, 5 digits
Officials		
People	top_dog_yn_logic9	????
Officials		
People	county code	
Officials		
People	county name	
Officials		
People	population	
Officials		